

GenCore version 5.1.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 12, 2004, 19:34:21 ; Search time 93.2699 Seconds  
(without alignments)  
1750.959 Million cell updates/sec

Title: US-08-978-217-16\_COPY\_2\_371

Perfect score: 1980

Sequence: 1 AATCEISNVSFNAYSS.....YKFGKNSGKWEVEGSRN 370

Scoring table:

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Xgapop 10.0, Xgapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-DB=Issued Patents NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:  
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6: /cgn2\_6/prodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1707	86.2	1907	4	US-09-300-958A-27
2	1707	86.2	1907	4	US-09-570-593-4
3	1707	86.2	1920	1	US-08-746-789A-1
4	803	40.6	502	4	US-09-389-681-282
5	803	40.6	502	4	US-09-620-405B-282
6	803	40.6	502	4	US-09-339-338-282
7	803	40.6	502	4	US-09-433-826B-282
8	803	40.6	502	4	US-09-604-287A-282
9	586	29.6	5427	3	US-09-009-913-2
10	580	29.3	5510	3	US-09-009-913-3
11	580	29.3	5867	3	US-09-009-913-4
12	543	27.4	852	3	US-09-020-956-44

c 13	543	27.4	852	3	US-09-030-607-44	Sequence 44, Appl
c 14	543	27.4	852	4	US-09-439-313-44	Sequence 44, Appl
c 15	543	27.4	852	4	US-09-352-616A-44	Sequence 44, Appl
c 16	543	27.4	852	4	US-09-232-149A-44	Sequence 44, Appl
c 17	507	25.6	848	3	US-09-009-913-338	Sequence 338, App
c 18	435.5	22.0	2280	3	US-09-009-913-8	Sequence 8, Appl
c 19	435.5	22.0	2428	3	US-09-009-913-6	Sequence 6, Appl
c 20	435.5	22.0	2498	3	US-09-009-913-10	Sequence 10, Appl
c 21	270	13.6	237	4	US-09-016-434-927	Sequence 927, App
c 22	238.5	12.0	2975	1	US-08-368-281-1	Sequence 1, Appl
c 23	238.5	12.0	3240	1	US-08-368-281-3	Sequence 3, Appl
c 24	234.5	11.8	1528	3	US-08-878-177-3	Sequence 3, Appl
c 25	233.5	11.8	1894	4	US-09-570-593-1	Sequence 1, Appl
c 26	233.5	11.8	1905	3	US-09-055-113-2	Sequence 2, Appl
c 27	233.5	11.8	3317	4	US-09-570-593-12	Sequence 12, Appl
c 28	225.5	11.4	1604	1	US-08-306-691B-43	Sequence 43, Appl
c 29	225.5	11.4	1604	5	PCT-US93-06251-9	Sequence 9, Appl
c 30	225	11.4	1447	3	US-08-878-177-1	Sequence 1, Appl
c 31	225	11.4	2938	2	US-08-343-443B-3	Sequence 3, Appl
c 32	220	11.1	2268	3	US-09-344-579-1	Sequence 1, Appl
c 33	214	10.8	1752	4	US-09-360-779-1	Sequence 1, Appl
c 34	214	10.8	1752	4	US-09-435-335-1	Sequence 1, Appl
c 35	214	10.8	1933	4	US-09-920-759-3	Sequence 3, Appl
c 36	214	10.8	1976	4	US-09-320-759-10	Sequence 10, Appl
c 37	202.5	10.2	2266	2	US-09-213-767-1	Sequence 1, Appl
c 38	198	10.0	665	4	US-09-920-759-11	Sequence 11, Appl
c 39	180.5	9.1	2667	2	US-08-469-412A-1	Sequence 1, Appl
c 40	180.5	9.1	2667	3	US-09-021-715-1	Sequence 1, Appl
c 41	179	9.0	2410	2	US-08-780-835B-1	Sequence 1, Appl
c 42	179	9.0	2410	3	US-09-303-268-1	Sequence 1, Appl
c 43	179	9.0	2410	3	US-09-116-049-1	Sequence 1, Appl
c 44	179	9.0	2410	4	US-09-884-363-1	Sequence 1, Appl
c 45	177	8.9	2064	3	US-08-875-944B-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-300-958A-27  
; Sequence 27, Application US/09300958A

; Patent No. 6495319

; GENERAL INFORMATION:

; APPLICANT: McClelland, Michael

; APPLICANT: Welsh, John

; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of

; FILE OF INVENTION: Using Same

; FILE REFERENCE: P-PH 3457

; CURRENT APPLICATION NUMBER: US/09/300,958A

; PRIOR FILING DATE: 1999-04-27

; PRIOR APPLICATION NUMBER: 60/083,331

; PRIOR FILING DATE: 1998-04-27

; PRIOR APPLICATION NUMBER: 60/098,070

; PRIOR FILING DATE: 1998-08-27

; PRIOR APPLICATION NUMBER: 60/118,624

; PRIOR FILING DATE: 1999-02-04

; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: Patent Ver. 2.0

; SEQ ID NO 27

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-300-958A-27

Alignment Scores:

Pred. No.: 1.64e-172 Length: 1907  
Score: 1707.00 Matches: 322  
Percent Similarity: 92.72% Conservative: 22  
Best Local Similarity: 86.79% Mismatches: 25  
Query Match: 86.21% Indels: 2  
DB: 4 Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-300-958A-27 (1-1907)

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QY 1 AlaAlaThrCysGluIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
Db 99 GCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTTCAGTGGAGTGTACAGCTCG 158

QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 159 GAGGACTCCACCTGGGCTCTGTTCCCTGCTGCTCCACCTTTGGGGCCGATGACTTGGTA 218

QY 40 LeuThrLeuAsnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
Db 219 CTGACCTGAGCAACCCAGATGATGATGGAGGTACAGAGAGCCAGCTGTTGGGG 278

QY 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpIleSerTyrGlnValGlu 79
Db 279 GAACAGCCCAAGTTCGTGTCGACAGCAGGTTCTGCACTGGATCAGTACCAAGTGGAG 338

QY 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 339 AAGAACAAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 398

QY 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 399 CTCTGCAATTGTGCTTGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 458

QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeGlu 139
Db 459 CATGCCAGCTGCGAGACCTCCTTCAGCTCTTCTGATGAGTCACTGATGATGATGATGAT 518

QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAsp 159
Db 519 CTGCTGGAGAGGATGCGCTTCCAGAGGCCCTA---GACCCAGGGCCCTTTGAC 575

QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspGlyArgGlnAlaSerProTyrTyr 179
Db 576 CAGGGCAGCCCTTTGCCCCAGGAGCTCTGAGAGCAGCGTCAAGCAAGCCAGCCCTACAC 635

QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
Db 636 CCGGCGAGCTGTGGCGAGAGGCCCCCTCCCTGGGAGCTCTGACGCTCCACCGGAGGG 695

QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219
Db 696 ACTGGTCTCTTCGGAGTCCCACTCTCAGACTCCGCTGGAAGTCACTGAGCTGGACCTGG 755

QY 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysGlyGluPro 239
Db 756 CCACCTGATGCAAGCTCTTCCCGAGGATGGTTCGTCGACGCAAGAGGGGATCCC 815

QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
Db 816 AAGCACGGGAAGCGGAACCGAGCGCCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT 875

QY 260 LeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
Db 876 CTGAGGGCAAGAGAGCAAGCAGCGCCCGAGAGCACCCACCTGTGGGAGTTCATCCGG 935

QY 280 AspileLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
Db 936 GACATCTCTCATCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 995

QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 319
Db 996 GGGCTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCACTATGCGGCCCAAGAAAG 1055

QY 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 339
Db 1056 AACAGCAACATGACCTACGAGAGAGCTGAGCCGGCCCATGAGGTACTACTACAAAGGGG 1115

QY 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 359
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QY 360 TrpLysGluGluGluValGlyGluSerArgAsn 370
Db 1176 TGGAGGAGGAGAGAGGTTTCTCAGAGTGGAGAC 1208

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## RESULT 2

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US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 6566063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Kin, Hong
; APPLICANT: Harrowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)...(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
; OTHER INFORMATION: protein.
US-09-570-593-4

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## Alignment Scores:

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Pred. No.: 1.64e-172 Length: 1907
Score: 1707.00 Matches: 322
Percent Similarity: 92.72% Conservative: 22
Best Local Similarity: 86.79% Mismatches: 25
Query Match: 86.21% Indels: 2
DB: Gaps: 2

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US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-570-593-4 (1-1907)

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QY 1 AlaAlaThrCysGluIleSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
Db 99 GCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTTCAGTGGAGTGTACAGCTCG 158

QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 159 GAGGACTCCACCTGGGCTCTGTTCCCTGCTGCTCCACCTTTGGGGCCGATGACTTGGTA 218

QY 40 LeuThrLeuAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
Db 219 CTGACCTGAGCAACCCAGATGATGATGGAGGTACAGAGAGCCAGCTGTTGGGG 278

QY 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpIleSerTyrGlnValGlu 79
Db 279 GAACAGCCCAAGTTCGTGTCGACAGCAGGTTCTGCACTGGATCAGTACCAAGTGGAG 338

QY 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 339 AAGAACAAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 398

QY 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 399 CTCTGCAATTGTGCTTGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 458

QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeGlu 139
Db 459 CATGCCAGCTGCGAGACCTCCTTCAGCTCTTCTGATGAGTCACTGATGATGATGATGAT 518

QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAsp 159
Db 519 CTGCTGGAGAGGATGCGCTTCCAGAGGCCCTA---GACCCAGGGCCCTTTGAC 575

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QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspGlyArgGlnAlaSerProTyrTyr 179
Db 576 CAGGAGAGCCCTTTGCCAGAGAGCTGTGGACAGGTTCAGACAGCCAGCCCTTACAC 635
QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
Db 636 CCGCGCAGCTGTGGCGCAGGAGCCCTTCCCTGGCAGCTCTGACGTCTCCACCGCAGG 695
QY 200 ThrAlaThrProGlnSerSerHisAlaSerSerGlyGlySerAspValAspLeuAsp 219
Db 696 ACTGGTCTTCTGGAGCTTCCACCTCCAGACTCCGTTGGAAGTACGTGGAGCTGGAT 755
QY 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysGlyGluPro 239
Db 756 CCCACTGATGGCAGCTCTTCCCGAGGATGTTTTCGTGACTGCCAAGAGGGGATCCC 815
QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259
Db 816 AAGCAGCGGAGCGGAACGAGCGCGCGCCGCGAAGCTGAGCAAGAGTACTGGGACTGT 875
QY 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279
Db 876 CTCGAGGGCAAGAGAGCAGCAGCAGCGCCAGAGGACCCACTGTGGAGTTTATCCGG 935
QY 280 AspLeuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299
Db 936 GACATCTCTATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 995
QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319
Db 996 GCGCTCTTCAAGTTCTCGCTCCGAGGCTCGGCGCCCAACTATGGGGCCAAAGAAAAG 1055
QY 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339
Db 1056 AACAGCAACATGACCTACGAGAGCTGAGCGCGGCATGAGTACTACTACAAACGGAG 1115
QY 340 IleLeuGluArgValAspGlyArgLeuValTyrLysPheGlyLysAsnSerSerGly 359
Db 1116 ATCCTGGAACGGGTGATGCGCGGAGCTCGTCTACAAATTGGCAAAATCTCAAGCGGC 1175
QY 360 TrpLysGluGluGluValGlyGluSerArgAsn 370
Db 1176 TGAAGAGAGAGAGAGTTCTCCAGAGTCGGAC 1208

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RESULT 3

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US-08-746-789A-1
; Sequence 1, Application US/08746789A
; Patent No. 5789200
; GENERAL INFORMATION:
; APPLICANT: Imaail Kola, Martin J. Tytms, Christine DeBouck
; TITLE OF INVENTION: A No. 5789200e1 Human ETS Family Member, ELF3
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; STREET: 709 Swedeland Road, P.O. Box 1539
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
; SOFTWARE: MICROSOFT WORD
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/746,789A
; FILING DATE: No. 5789200e1 15, 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:

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; NAME: William T. Han
; REGISTRATION NUMBER: 34,344
; REFERENCE/DOCKET NUMBER: ATG 50024
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610 270 5219
; TELEFAX: 610 270 4026
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1920
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: NO
; US-08-746-789A-1
Alignment Scores:
Pred. No.: 1,66e-172 Length: 1920
Score: 1707.00 Matches: 322
Percent Similarity: 92.72% Conservative: 22
Best Local Similarity: 86.79% Mismatches: 25
Query Match: 86.21% Indels: 2
DB: 1 Gaps: 2
US-08-978-217-16_COPY_2_371 (1-370) x US-08-746-789A-1 (1-1920)
QY 1 AlaAlaThrCysGluLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20
Db 118 GCTGCAACCTGTGAGATTAGCAACATTTTAGCACTACTTTCAGTCGATGACAGCTCG 177
QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39
Db 178 GAGAGCTCCACCTTGGCTCTGTCTCCCTCTGTCGCCACCTTTGGGCGCCGATGACTTGGTA 237
QY 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59
Db 238 CTGACCTCTGAGCAACCCCAAGATGTCATTTGGAGGGTACAGAGAGGCTAGCTGTTGGGG 297
QY 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTyrGlnValGlu 79
Db 298 GAACAGCCCCAGTTCTGGTGAAGAGCGAGGTTCTGGACTGGATCAGTACCAAGTGGAG 357
QY 80 LysAsnLysTyrAspAlaSerSerLysAspPheSerArgCysAsnMetAspGlyAlaThr 99
Db 358 AAGAACAAAGTACGACGCAAGCGCCATTGACTTCTCAGATGTGACATGATGGGCGCAC 417
QY 100 LeuCysSerCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119
Db 418 CTCTGCAATTGTGCTTGGAGAGCTGCGTCTGTTGGGCTCTGGGCGGACCAACTC 477
QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysLeu 139
Db 478 CATTGCCAGCTGGCAGACCTCACTTTCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAG 537
QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159
Db 538 CTGCTGGAGAAGGATGCGATGGCTTCCAGGAGCGCTA---GACCCAGGCGCCCTTTGAC 594
QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyr 179
Db 595 CAGGCGAGCCCTTTGCCCCAGGAGCTGTGAGCAGCTGAGCAGCAGCAGCCCTTACCAC 654
QY 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199
Db 655 CCGGCGAGCTGTGGCGCAGGAGCCCTTCCCTGGCAGCTCTGACGTCTCCACCGCAGG 714
QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyLysSerAspValAspLeuAsp 219
Db 715 ACTGGTCTTCTCGGAGCTCCCACTCTCTCAGACTCCCGTGAAGTACCGTGGACCTGGAT 774
QY 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239
Db 775 CCCACTGATGGCAGCTCTTCCCGAGGATGTTTTCGTGACTGCAAGAGGGGATCCC 834

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240	LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys	259
835	AAGACCGGGAACCGAAACAGAGCGCGGCCCGCAAGACTGAGCAAAAGACTTCTGGACTGT	894
260	LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg	279
895	CTCGAGGCCAGAAAGACAGACGCGCCACAGAGGCCACCCACTGTGGGAGTTTATCCGG	954
280	AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu	299
955	GACATCTCTCATCCACCGGAGCTCAACAGAGCGCTCTCATGAGTGGGAGAAATCGGCATGAA	1014
300	GlyValPheLysPheLeuArgSerGluuAlaValAlaGlnLeuTrpGlyGlnLysIleLys	319
1015	GGCGTCCTTCAAAGTTCCTCGCGCTCCGAGGCTGTGCGCCAACTATGGGGGCAAAAGAAAAG	1074
320	AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu	339
1075	AACAGCAACATGACTTACGAGAGAGCTGAGCGGGGCCATGAGGTACTTACTACAAACGGGAG	1134
340	IleLeuGluuArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly	359
1135	ATCTCGTGAACGGTGGTGGATGCGCGGACTCGTCTACAAGTTTGGCAGAAACTCAAGCGGC	1194
360	TrpLysGluGluGluValGlyGluSerArgAsn	370
1195	TGGAGGAGGAGGAGAGGTTCCTCCAGTCCGAAC	1227

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RESULT 4
US-09-389-681-282
; Sequence 282, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqui, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282

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US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-389-681-282 (1-502)

Qy	184	GlyProGlyValAlaProSerProGlySerSerAspValSerThrAlaargThrAlaThrPro	203
Db	6	GGCGAGGAGCCCTCCCGCGCAGCTCTGACCTCTCCACCGCAGGACTGCTGCTTCT	65
Qy	204	GlnSerSerHisAlaSerAspSerGlyClySerAspValAspLeuAspLeuThrGluSer	223
		::::	
Db	66	CGGAGCTCCCACTCTCTCAGACTCCGGTGGAAAGTCACTGGACCTGGATCCCACTGATGGC	125
Qy	224	LysValPheProArgAspAspPheThrAspTyrIlyIyIySGlyGluProIyIyHisGlyIyLys	243
Db	126	AAGCTCTTCCCCCGCGTGGTTCCTGCTACTGCAAGAAGGGGGATCCCAAGCAGCGGAG	185
Qy	244	ArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLys	263

186	CGGAACAGAGGCCGCCCGCGAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAG	245
264	LyseSerLyHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAspIleLeuIle	283
246	AAGAGCAAGACACGCCGCCAGAGGACCCACCTGTGGGAGTTTCATCGGAGACATCCTCATC	305
284	HisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPheLys	303
306	CACCCGGAGCTCAACAGAGGGCCTCATGAAGTGGGAGAAATCGGCATGAAGGGCGTCTTCAAG	365
304	PheLeuArgSerGluAlaValAlaGluLeuTrpGlyGlnLysLysLysLysAsnSerAsnMet	323
366	TTCTCGCTCCGGAGCTGTGGCCCAACTATGGGGCCAAAGAAAGAACAGACACATG	425
324	ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIleLeuGluArg	343
426	ACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTTGGAACGG	485
344	ValAspGlyValArg	348
486	GTGGATGGCCGGCGA	500

```

RESULT 5
US-09-620-405B-282
; Sequence 282, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuguo
; APPLICANT: Dillion, Gavin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: fastSEQ for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-620-405B-282

```

US-08-378-217-16\_COPY\_2\_371 (1-370) x US-09-620-405B-282 (1-502)

Qy	184	GlyProGlyValaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrPro	203
Db	6	GGCGCAGGAGCCCTCCCCCGGACGCTCTGACGTCTCCACCGAGGACTGGTGCCTTCT	65
Qy	204	GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer	223
Db	66	CGAGAGCTCCACTCTCTCAGACTCCGGTGGAGTGACGTGGACCTGGATCCCACTGATGGC	125
Qy	224	LyseValPheProArgAspAspPheThrAspTyrIyIySGLyGluProIySHisGlyLys	243
Db	126	AGCTCTTCCCAGCGATGGTTTTCTGTGACTGCACAGAGGGGGATCCCAAGCACCGGAG	185
Qy	244	ArgLyseArgGlyArgProArgLyLeuSerIySGLyTrpAspCysLeuGluGlyLys	263
Db	186	CGAAACAGGCGCGCCCGAAAGCTGAGCAAGAGTACTGGGACTGTCTTCGAGGGCAG	245



QY	264	LysSerLysHisAlaProArgGlyThrHisLeuTnpGluPherHisArgAspIleLeuIle	283
Db	246	AAGAGACACGCGCCAGAGCACCCACACTGTGGAGTTTCATCCGGGACATCCTCATC	305
QY	284	HisProGluLeuAsnGluLysLeuMetLysTrpGluAsnArgHisGluGlyValAlpHelys	303
Db	306	CACCCGGAGCTCAACAGAGGCGCTCATGAAGTGGAGAAATCGCATGAAGCGCTTCAAG	365
QY	304	PheLeuArgSerGluAlaValAlaGlnLeuTnpGlyGlnLysLysLysAsnSerAsnMet	323
Db	366	TTCTGTGCTCGAGGCGTGTGGCCCACTATGTGGGCCCAAAAGAAAAGAACAGCAATG	425
QY	324	ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIleLeuGluArg	343
Db	426	ACCTACGAAAGCTAGCGCGGCCATGAGGTACTACTACAAACGGGAGATCCTTGGAAACGG	485
QY	344	ValAspGlyArgArg	348
Db	486	GTGGATGGCCGGCGA	500

## RESULT. T 6

```

US-09-339-338-282
; Sequence 282, Application US/09339338A
; Patent No. 6573368
; GENERAL INFORMATION:
; APPLICANT: Yugiu, Jiaang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiaangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-339-338-282

```

Db 366 TTCTGGCTCCGAGGTGTGGCCCACTATGGGCGCAAAAGAAAGAACAGCAACATG 425  
QY 324 ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluLeuLeuGluArg 343  
Db 426 ACCTACGAGAGCTGAGCGCGCCATGAGGTACTACTACAAACGGGAGATCTTGGACGG 485

QY 344 ValAspGlyArgArg 348  
Db 486 GTGGATGCCCGCGCA 500

## RESULT 8

US-09-604-287A-282

; Sequence 282, Application US/09604287A

; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yugu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Repler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.470C7

; CURRENT APPLICATION NUMBER: US/09/604,287A

; NUMBER OF SEQ ID NOS: 489

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-604-287A-282

Alignment Scores:

Pred. No.:	7,91e-77	Length:	502
Score:	803.00	Matches:	149
Percent Similarity:	93.33%	Conservative:	5
Best Local Similarity:	90.30%	Mismatches:	11
Query Match:	40.56%	Indels:	0
DB:	4	Gaps:	0

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-604-287A-282 (1-502)

QY 184 GlyProGlyAlaProSerProGlySerAspValSerThrAlaArgThrAlaThrPro 203

Db 6 GCGCAGAGGCCCTCCCGGAGCTCTGAGCTTCCACCGCAGGACTGGTGTCT 65

QY 204 GlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSer 223

Db 66 CGGAGCTCCCACTCTCCAGACTCCGGTGGAGTGACGTGGACCTGGATCCCACTGATGCG 125

QY 224 LysValPheProArgAspAspPheThrAspTyrLysLysGlyGluProLysHisGlyLys 243

Db 126 AAGCTCTTCCCGCAGTGTTTTCGTGATCGCAGAGGGGATCCCAAGCAGCGGAG 185

QY 244 ArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLys 263

Db 186 CGGAACGAGCGCGCCCGCCAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAG 245

QY 264 LysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeuLeu 283

Db 246 AAGAGCAAGCAGCGCGCCAGAGCGCACCCCTGTGGAGTTCTCCGGGACATCTCTCATC 305

QY 284 HisProGluLeuAenGluGlyLeuMetLysTrpGluAenArgHisGluGlyValPheLys 303

Db 306 CACCGGAGCTCAACGAGGCGCTCATGAACTGGAGATCGGATGATGAGCGCTCTCAAG 365

QY 304 PheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysSerAenMet 323

Db 366 TTCTGGCTCCGAGGTGTGGCCCACTATGGGCGCAAAAGAAAGAACAGCAACATG 425

QY 324 ThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluLeuLeuGluArg 343  
Db 426 ACCTACGAGAGCTGAGCGCGCCATGAGGTACTACTACAAACGGGAGATCTTGGACGG 485  
QY 344 ValAspGlyArgArg 348  
Db 486 GTGGATGCCCGCGCA 500

## RESULT 9

US-09-009-913-2

; Sequence 2, Application US/09009913

; Patent No. 6087485

; GENERAL INFORMATION:

; APPLICANT: Axys Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma Related Genes

; NUMBER OF SEQUENCES: 339

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Bozicevic &amp; Reed, LLP

; STREET: 285 Hamilton Ave, Suite 200

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/009,913

; FILING DATE: 21-JAN-1998

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Sherwood, Pamela J

; REGISTRATION NUMBER: 36,677

; REFERENCE/DOCKET NUMBER: SEQ-4P

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650-327-3231

; TELEFAX: 650-327-3231

; TELEX:

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 5427 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-09-009-913-2

Alignment Scores:

Pred. No.:	4.64e-52	Length:	5427
Score:	586.00	Matches:	141
Percent Similarity:	50.26%	Conservative:	51
Best Local Similarity:	36.91%	Mismatches:	86
Query Match:	29.60%	Indels:	104
DB:	3	Gaps:	11

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-009-913-2 (1-5427)

QY 26 AlaProAlaProProThrThr-----PheGlyThrGluAspLeuValLeuThr 41

Db 84 GCTGCTCCCTCCATCAGCCACAGCTATTGGATTTCACCACCCAGATCTTTAGTA--- 140

QY 42 LeuAsnGlnGlnMetThrLeuGluGly----- 51

Db 141 -----AATGATCATCATGATTCGGAAGGAGGTGGTGAATGAATCTCAACCCCGGCAAC 194

QY 52 -----ProGluLysAlaSerTrpThrSerGlu----- 60

Db 195 AACCTCTTCCACGAGCCCGCCAGCTGGACAGACAGCTACTCCACGCTGTTTCCAGT 254

QY 61 -----ArgProGlnPheTrpSerIysThrGlnVal 70  
Db 255 GGGTTTTTGGAGCCAGTGGCATGAATTCATCTCAGTACTGGACCAAGTACCAAGTG 314  
QY 71 LeuGluTrpIleSerTyGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPhe 90  
Db 315 TGGAGTGGGTCCAGCACTCCCTGGACCAACCAAGCTGGATGCCAATGTATCTCTTC 374  
QY 91 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLysArgLeu 110  
Db 375 CAAGAGTTCGACATCAAGCGGAGCACTCTGAGCATGAGTTGGAGGATTCACCCGG 434  
QY 111 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn--- 129  
Db 435 CGCGCAGGAGCGGGCGGAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGGACGGC 494  
QY 130 -----SerSerAspGluLeuSerTrpIleLeuLeuLysAspGlyMetSer 147  
Db 495 CAGTGCAGTAGTAC-----CTG 512  
QY 148 PheGlnSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGlu 167  
Db 513 TTCCAGTCCACACAAATGTCATGTCAAGACTGAACAACTGAGCCT-----TCC 563  
QY 168 LeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAla 187  
Db 564 ATCATGAACACCTGGGAAGACGAGAACTATTATATGACACCAACTATGCT----- 614  
QY 188 ProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHis 207  
Db 615 -----AGCACA----- 620  
QY 208 AlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerLysValPhePro 227  
Db 621 -----GTAGATTGTGGACAGCAAACTTTCTGC 650  
QY 228 ArgAspAspPhe-----ThrAspTyrLysGlyGluProLysHisGly 242  
Db 651 CGGCTCAGATCTCCATGACACACACAGTCACTCTCTGTCAGAGTCACTGATATG 710  
QY 243 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGly 262  
Db 711 AAAAAGAGCAGAACCCGCCCTGCCAAGTGCACACCAAA----- 749  
QY 263 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAspIleLeu 282  
Db 750 -----AAGCAACCCGAGAGGAGTCACTTATGGGAATTCACTCCGCGCATCTC 800  
QY 283 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 302  
Db 801 TTGAACCCAGACAGAACCCAGGATTAATAAATGGAGACCGCATCTGAGGCGTCTTC 860  
QY 303 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 322  
Db 861 AGGTTCCTGAATCAGAGCGAGTGGCTCAGCTATGGGGTAAAGAGAGCAACACAGCAGC 920  
QY 323 MetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIleLeuGlu 342  
Db 921 ATGACCTTGAAGAGCTCAGCGGAGCTATGAGATATTACTAACAAGAGAAATCTGGAG 980  
QY 343 ArgValAspGlyArgArgLeuValTyrLysPheLysAsnSerSerGlyTrpLysGlu 362  
Db 981 CGTGTGATGACAGCACTGGTATATAAATTTGGGAAGAATGCCCGAGGATGGAGAA 1040  
QY 363 GluGlu 364  
Db 1041 AATGAA 1046

RESULT 10

US-09-009-913-3

; Sequence 3, Application US/09009913

; Patent No. 6087485

GENERAL INFORMATION:  
APPLICANT: AXYs Pharmaceuticals, Inc.  
TITLE OF INVENTION: Asthma Related Genes  
NUMBER OF SEQUENCES: 339  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bozicevic & Reed, LLP  
STREET: 285 Hamilton Ave, Suite 200  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/009,913  
FILING DATE: 21-JAN-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Sherwood, Pamela J  
REGISTRATION NUMBER: 36,677  
REFERENCE/DOCKET NUMBER: SEQ-4P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-327-3231  
TELEFAX: 650-327-3231  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5510 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-009-913-3

## Alignment Scores:

Pred. No.:	2,08e-51	Length:	5510
Score:	580.00	Matches:	129
Percent Similarity:	54.43%	Conservative:	43
Best Local Similarity:	40.82%	Mismatches:	78
Query Match:	29.29%	Indels:	66
DB:	3	Gaps:	7

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-009-913-3 (1-5510)

QY	57	TrpThrSerGluArgProGlnPheTrpSerIysThrGlnValLeuGluTrpIleSerTyr	76
Db	356	TGGCATGAATTCATCTCAGTACTGGACCAAGTACCAAGTGGAGTGGCTCCAGCAC	415
QY	77	GlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAsp	96
Db	416	CTCCTGGACCAACCAAGCTGGATGCCAATTGTATCCTTTCCAAGAGTTCGACATCAAC	475
QY	97	GlyAlaThrLeuCysSerCysAlaLeuGluLysArgLeuValPheGlyProLeuGly	116
Db	476	GCGCAGCAGCACTCTCGAGCATGAGTTTCAGGAGTTCACCGCGGCGGAGGACCGCGGG	535
QY	117	AspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn-----SerSerAspGlu	133
Db	536	CAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGGAAACCGCCAGTGCAGTAGTGAC---	592
QY	134	LeuSerTrpIleIleGluLeuLysAspGlyMetSerPheGlnGluSerLeuGly	153
Db	593	-----CTGTTCAGTCCACACAAAT	613
QY	154	AspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGlyArg	173
Db	614	GTCATTGTCAAGACTGAACAACTGAGCCT-----TCCATCATGACACCTGGAAA	664

QY 174 GlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSer 193  
 Db 665 GACGAGAACTATTATATGACCAACTATGGT----- 697  
 QY 194 AspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGly 213  
 Db 698 -----AGCACA----- 703  
 QY 214 SerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAspPhe----- 231  
 Db 704 -----GTAGATTGTGGACAGCAAACTTTCTGCGGGCTCAGATCTCCATG 751  
 QY 232 -----ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgLysArg 248  
 Db 752 ACAACCAACCACTACCTCTCTGTCAGAGTCACCTGATATGAAAAAGGACGACGACCC 811  
 QY 249 ProArgLysLeuSerLysGluTyrTyrTyrAspCysLeuGluGlyLysLysSerHisAla 268  
 Db 812 CCTGCCAAGTCCACACAAA-----AAGCAAC 841  
 QY 269 ProArgLysHisLeuThrGluPheLeuArgAspLeuLeuHisProGluLeuAsn 288  
 Db 842 CCGAGAGGAGCTCACTTATGGAAATTCATCCGACATCTCTTGAACCCAGACAGAAC 901  
 QY 289 GluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPheLysPheLeuArgSerGlu 308  
 Db 902 CCAGATTATAAATGGGAGACCGGATCTGAGGGGCTCTTCAGGTCTTGAATCAGAG 961  
 QY 309 AlaValAlaGlnLeuThrGlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeu 328  
 Db 962 GCAGTGCTCAGCTATGGGTAAAGAGACAGACAGACAGATGACCTATGAAAGCTC 1021  
 QY 329 SerArgAlaMetArgTyrTyrTyrLysArgGluLeuGluLeuArgValAspGlyArg 348  
 Db 1022 AGCGAGCTATGAGATATTACTACAAAGAGAAATACTGGAGCGTGTGGATGACGAGA 1081  
 QY 349 LeuValTyrLysPheGlyLysAsnSerSerGlyTyrLysGluGluGlu 364  
 Db 1082 CTGGTATATAAATTTGGAGAGATGCCGAGGATGGAGAGAAATGAA 1129

## RESULT 11

US-09-009-913-4

Sequence 4, Application US/09009913

Patent No. 6087485

GENERAL INFORMATION:

APPLICANT: Axys Pharmaceuticals, Inc.

TITLE OF INVENTION: Asthma Related Genes

NUMBER OF SEQUENCES: 339

CORRESPONDENCE ADDRESS:

ADDRESSEE: Bozicevic &amp; Reed, LLP

STREET: 285 Hamilton Ave, Suite 200

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/009,913

FILING DATE: 21-JAN-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Sherwood, Pamela J

REGISTRATION NUMBER: 36,677

REFERENCE/DOCKET NUMBER: SEQ-4P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650-327-3231  
 TELEFAX: 650-327-3231  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 5667 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 US-09-009-913-4

## Alignment Scores:

Pred. No.: 2,17e-51  
 Score: 580.00  
 Percent Similarity: 54.43%  
 Best Local Similarity: 40.82%  
 Query Match: 29.29%  
 DB: 3  
 Length: 5667  
 Matches: 129  
 Conservative: 43  
 Mismatches: 78  
 Indels: 66  
 Gaps: 7

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-009-913-4 (1-5667)

QY 57 TrpThrSerGluArgProGlnPheTrpSerLysThrGlnValLeuGluTyrPileSerTyr 76  
 Db 513 TGGCATGAAATTCATCTCAGTACTGACCAAGTACCAGGTGTGGAGTGGCTCCAGCAC 572  
 QY 77 GlnValGluLysAsnLysTyrAspAlaSerSerLysAspPheSerArgCysAsnMetAsp 96  
 Db 573 CTCCTGGACCAACCAAGCTGGATGCCAATTTGTTATCTCTTCCAAAGAGTTCGACATCAAC 632  
 QY 97 GlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGly 116  
 Db 633 GCGGAGCACCTTCGAGCATGAGTTTCAGAGTTTACCCTGGCGGCGGAGGACGGCGGG 692  
 QY 117 AspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsn-----SerSerAspGlu 133  
 Db 693 CAGCTCTCTACAGCAACTTGCAGCATCTGAAGTGAACGCGCCAGTGCAGTAGTGAC--- 749  
 QY 134 LeuSerTrpIleLeuGluLeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGly 153  
 Db 750 -----CTGTTCCAGTCCACACAAT 770  
 QY 154 AspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGlyArg 173  
 Db 771 GTCATTGTCAAGACTGAACAACTGAGCCT-----TCCATCATGAACACCTGGAAA 821  
 QY 174 GlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGlySerSer 193  
 Db 822 GACGAGAACTATTATATGACCACTATGCT----- 854  
 QY 194 AspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGly 213  
 Db 855 -----AGCACA----- 860  
 QY 214 SerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAspPhe----- 231  
 Db 861 -----GTAGATTGTGGACAGCAAACTTTCTGCGGGCTCAGATCTCCATG 908  
 QY 232 -----ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgLysArg 248  
 Db 909 ACAACCAACCACTCTCTCTGTCAGAGTCACCTGATATGAAAAAGGACGACGACCC 968  
 QY 249 ProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGlyLysLysSerHisAla 268  
 Db 969 CCGGAGGAGCTCACTTATGGAAATTCATCGGACATCTCTTGAACCCAGACGACAAAC 998  
 QY 269 ProArgGlyThrHisLeuThrGluPheLeuArgAspLeuLeuHisProGluLeuAsn 288  
 Db 999 CCGAGAGGAGCTCACTTATGGAAATTCATCGGACATCTCTTGAACCCAGACGACAAAC 1058  
 QY 289 GluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPheLysPheLeuArgSerGlu 308  
 Db 1059 CCAGATTATAAATGGGAGACCGATCTGAGGGCGCTCTTCAGTTCTTGAATCAGAG 1118

QY 309 AlaValAlaGlnLeuTyrGlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeu 328  
 Db 1119 GCAGTGCTCAGCTATGGGTAAAGAAAGAACACAGCAGCATGACCTATGAAAGTTC 1178  
 QY 329 SerArgAlaMetArgTyrTyrLysArgGluLeuLeuGluArgValAspGlyArg 348  
 Db 1179 AGCCGAGCTATGAGATATTACTACAAAGAGAAATACTGGAGCGTGTGGATGACCAAGA 1238  
 QY 349 LeuValTyrLysPheGlyLysAsnSerSerGlyTyrLysGluGluGlu 364  
 Db 1239 CTGGTATATAATTTCGGAGAGATGCCCGAGGATGGAGAGAAATGAA 1286

## RESULT 12

US-09-020-956-44/c  
 ; Sequence 44, Application US/09020956  
 ; Patent No. 6261562  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiaqun  
 ; APPLICANT: Dillon, David C.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
 ; NUMBER OF SEQUENCES: 178  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SEED and BERRY LLP  
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue  
 ; CITY: Seattle  
 ; STATE: WA  
 ; COUNTRY: USA  
 ; ZIP: 98104  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/020,956  
 ; FILING DATE: 09-FEB-1998  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Maki, David J.  
 ; REGISTRATION NUMBER: 31,392  
 ; REFERENCE/DOCKET NUMBER: 210121.427C2  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (206) 622-4900  
 ; TELEFAX: (206) 682-6031  
 ; INFORMATION FOR SEQ ID NO: 44:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 852 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Homo sapiens  
 ; US-09-020-956-44

Alignment Scores:  
 Pred. No.: 1,06e-48 Length: 852  
 Score: 543.00 Matches: 124  
 Percent Similarity: 54.28% Conservative: 41  
 Best Local Similarity: 40.79% Mismatches: 73  
 Query Match: 27.42% Indels: 66  
 DB: 3 Gaps: 7

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-020-956-44 (1-852)

QY 69 GlnValLeuGluTyrPheSerTyrGlnValGluLysAsnLysTyrAspAlaSerIle 88  
 Db 850 CAGGTGTGGAGTGGCTCCATCCTCTGGACACCAACAGCTGGATGCCAATTGTATC 791  
 QY 89 AspPheArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108  
 Db 790 CCTTCCANGAGTTGCATCAACGGCGAGCACCTTTTCGACATGAGTTTCGAGGATTC 731

QY 109 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSer 128  
 Db 730 ACCGGCGCGCAGAGAGCGCGGGGNCCTCTCTACAGCACTTCGAGCATTCGAAGTGG 671  
 QY 129 Asn-----SerSerAspGluLeuSerTrpIleIleGluLeuGluLysAspGly 145  
 Db 670 AACGGCCAGTGCAGTAGTGAC----- 650  
 QY 146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 155  
 Db 649 ---CTGTTCCAGTCCACACACAATGATTGTCAAGACTGAACAAACTGAGCCT----- 599  
 QY 166 GlnGluLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185  
 Db 598 ---TCCATCATGACACCTCGGAAGACAGACTATTATATGACACCACTATGCT--- 545  
 QY 186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205  
 Db 544 -----AGCACA----- 539  
 QY 206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerLysVal 225  
 Db 538 -----GTAGATTGTTGGACAGCAAACT 515  
 QY 226 PheProArgAspPhe-----ThrAspTyrLysLysGlyGluProLys 240  
 Db 514 TTCTGCGGGCTCAGATCTCCATGACACACCAGTCACCTCTCTGTTGCAGAGTCACCT 455  
 QY 241 HisGlyLysArgLysArgLysArgProArgLysLeuSerLysGluTyrTrpAspCysLeu 260  
 Db 454 GATATGAAAGAGGAGCAGACCCCTGCCAAGTCCACACCAAA----- 410  
 QY 261 GluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280  
 Db 409 -----AAGCACAACCGCAGAGGAGCTCACTTATGGGAATTCATCCGCGAC 365  
 QY 281 IleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300  
 Db 364 ATCCTCTTGAACCCAGACAGAACCCAGGATTAAATAAATGGGAAGACCGATCTGAGGC 305  
 QY 301 ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysAsn 320  
 Db 304 GTCTTCAGGTTCTTGAATCAGAGCGAGTGGCTCAGCTATGGGGTAAAGAGAACACAC 245  
 QY 321 SerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLeu 340  
 Db 244 AGCAGCATGACCTATGAAAAGCTCAGCCGAGCTATGAGATAATTACTACAAAAGAGAAAT 185  
 QY 341 LeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGlyTrp 360  
 Db 184 CTGGAGCGTGTGGATGGAGACGAGACTGGGTATATAATTGGGAGAAATGCCCGAGGATGG 125  
 QY 361 LysGluGluGlu 364  
 Db 124 AGAGAAATGAA 113

## RESULT 13

US-09-030-607-44/c  
 ; Sequence 44, Application US/09030607  
 ; Patent No. 6262245  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiaqun  
 ; APPLICANT: Dillon, David C.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
 ; NUMBER OF SEQUENCES: 224  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SEED and BERRY LLP  
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue  
 ; CITY: Seattle  
 ; STATE: WA  
 ; COUNTRY: USA  
 ; ZIP: 98104

```

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,607
FILING DATE: 25-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 852 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-030-607-44

Alignment Scores:
Pred. No.: 1.06e-48      Length: 852
Score: 543.00          Matches: 124
Percent Similarity: 54.28%      Conservative: 41
Best Local Similarity: 40.79%   Mismatches: 73
Query Match: 27.42%            Indels: 66
DB: 3                    Gaps: 7

US-08-978-217-16_COPY_2_371 (1-370) x US-09-030-607-44 (1-852)

Qy 69 GlnValLeuGluTrpIleSerTyrglnValGluAsnLysTyrrAspAlaSerSerIle 88
Db 850 CAGTTGGGAGTGGCTCCATCCTCTGGACACACACCGCTGGATGCCAATTGATC 791
Qy 89 AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108
Db 790 CCTTCCAGAGTTCGACATCAACGGCGGAGCCTTTCAGCATGATGTTGCGAGGATTC 731
Qy 109 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSer 128
Db 730 ACCGGGGCGGAGGAGCGGGGGGCACTCTCTACAGCAACTTCGAGCATCTGAAAGTGG 671
Qy 129 Asn-----SerSerAspGluLeuSerTrpIleIleGluLeuGluLysAspGly 145
Db 670 AACGGCCAGTCAGTAGTAC-----550
Qy 146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 165
Db 649 ---CTGTTCAGTCCACACAAATGTCATTCAGACACTGAACAAACTGAGCCT-----599
Qy 166 GlnGluLeuAspAspGlyAspGlnAlaSerProTyrrTyrrCysSerThrTyrrGlyPro 185
Db 598 ---TCCATCATGAACACTGGAAGACACAGAACTATTATATGACCAACTATGT---545
Qy 186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
Db 544 -----AGCACA-----539
Qy 206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerLysVal 225
Db 538 -----GTAGATTGTTGGACAGCAAACT 515
Qy 226 PheProArgAspAspPhe-----ThrAspTyrrLysLysGlyGluProLys 240
Db 514 TTCTCGCGGGTCCAGATCTCCATGACAAACACCACTGACCTCTCTGTTGCGAGATCACCT 455

241 HisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTrpTrpAspCysLeu 260
454 GATATGAAAAGAGGAGGAGACCCCTCCAGTGGCCACACCAAA-----410
261 GluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
409 -----AAGCACACACCGAGGAGGACTCACTTATGGGAATTCATCCGCGAC 365
281 IleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
364 ATCTCTTGACCCAGACAGACACCCAGGATTATAAATGGGAGACCCATCTGAGGGC 305
301 ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlnLysLysLysAsn 320
304 GTCTTCAGGTTCTTGAATCAGAGGAGTGGCTCAGCTATGGGTAAAGAAAGAAACAAC 245
321 SerAsnMetThrTyrrGluLysLeuSerArgAlaMetArgTyrrTyrrLysArgGluLeu 340
244 AGCAGCATGACCTATGAAGAAGCTCAGCCGAGCTATGAGATATTACTACAAAGAGAATT 185
341 LeuGluArgValAspGlyArgArgLeuValTyrrLysPheGlyLysAsnSerSerGlyTrp 360
184 CTGGAGCGTGTGGATGACGAGGACTGGTATATAAATTTGGGAAGATGCCCGAGGATGG 125
361 LysGluGluGlu 364
124 AGAGAAAATGAA 113

RESULT 14
US-09-439-313-44/c
; Sequence 44, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqi
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1) ..(852)
; OTHER INFORMATION: n = A, T, C or G
US-09-439-313-44

Alignment Scores:
Pred. No.: 1.06e-48      Length: 852
Score: 543.00          Matches: 124
Percent Similarity: 54.28%      Conservative: 41
Best Local Similarity: 40.79%   Mismatches: 73
Query Match: 27.42%            Indels: 66
DB: 4                    Gaps: 7

US-08-978-217-16_COPY_2_371 (1-370) x US-09-439-313-44 (1-852)

Qy 69 GlnValLeuGluTrpIleSerTyrglnValGluAsnLysTyrrAspAlaSerSerIle 88
Db 69 GlnValLeuGluTrpIleSerTyrglnValGluAsnLysTyrrAspAlaSerSerIle 88

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Db      850 CAGGTGTGGAGTGGCTCCATCCTCTGGACACCAACAGCTGGATGCCAATTGTATC 791
Qy      89 AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108
Db      790 CCTTCCANGAGTTCGACATCAACGGGGAGCAGCTTTTGACGATGATTTGACGAGTTC 731
Qy      109 ArgLeuValPheGlyProLeuGlyAspGluLeuHisAlaGlnLeuArgAspLeuThrSer 128
Db      730 ACCCGGGGGCAGGAGCGGGGCGGAGCTCTCTACAGCAACTTGACGATCTGAAGTGG 671
Qy      129 Asn-----SerSerAspGluLeuSerTrpIleLeuLeuGluLeuAspGly 145
Db      670 AACGGCCAGTGCAGTAGTAC-----550
Qy      146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 165
Db      649 ---CTGTTCAGTCCACACAAATGTCATTGTCAAGACTGAACAACTGAGCCT-----599
Qy      166 GlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185
Db      598 ---TCCATCATGAACACCTCGAAGACNAGACTATTATATGACCAACTATGCT---545
Qy      186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
Db      544 -----AGCACA-----539
Qy      206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerIysVal 225
Db      538 -----GTAGATTGTGGACGACCAAACT 515
Qy      226 PheProArgAspAspPhe-----ThrAspTyrIysGlyGlyGluProLys 240
Db      514 TTCTGCGGGCTCAGATCTCCATGACCAACCCAGTCACTCTCTCTGTCAGAGTCACT 455
Qy      241 HisGlyIysArgIysArgGlyArgProArgLysLeuSerIysGluTyrTrpAspCysLeu 260
Db      454 GATATGAAAAGGAGGACAGACCCCTCGCAAGTTCAGTCCAGTCCAGTCACT 410
Qy      261 GluGlyIysSerIysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
Db      409 -----AAGCACACCCGAGGAGGACTCTTATGGAAATTCATCCGAC 365
Qy      281 IleuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
Db      364 ATCTCTTGACCCACACAGACCACTGATTAATAATGGAGACCACTGCTGAGGCT 305
Qy      301 ValPheIysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnIysLysAsn 320
Db      304 GTCTTCAGTCTTGAATCAGAGGCGAGTGGCTCAGCTATGGGTAAAGAAAGAACAC 245
Qy      321 SerAsnMetThrTyrGluIysLeuSerArgAlaMetArgTyrTyrTyrIysArgGluIle 340
Db      244 AGCAGCATGACCTATGAAAAGCTCAGCGAGCTATGAGATATTACTACAAAAGAGAAAT 185
Qy      341 LeuGluArgValAspGlyArgGluLeuValTyrLysPheGlyIysAsnSerSerGlyTrp 360
Db      184 CTGAGCGGTGTGATGAGCAAGACTGGTATATAATTTGGGAAGATGCCCGGAGATGG 125
Qy      361 LysGluGluGlu 364
Db      124 AGAGAAAATGAA 113

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## RESULT 15

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US-09-352-616A-44/c
; Sequence 44, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillion, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Fuqul
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

```

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; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-352-616A-44

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## Alignment Scores:

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Pred. No.: 1,06e-48      Length: 852
Score: 543.00           Matches: 124
Percent Similarity: 54.28%      Conservative: 41
Best Local Similarity: 40.79%    Mismatches: 73
Query Match: 27.42%            Indels: 66
DB: 4                        Gaps: 7

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US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-352-616A-44 (1-852)

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Qy      69 GlnValLeuGluTrpIleSerTyrGlnValGluIysAsnLysTyrAspAlaSerSerIle 88
Db      850 CAGGTGTGGAGTGGCTCCATCCTCTGGACACCAACAGCTGGATGCCAATTGTATC 791
Qy      89 AspPheSerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeu 108
Db      790 CCTTCCANGAGTTCGACATCAACGGGGAGCAGCTTTTGACGATGATTTGACGAGTTC 731
Qy      109 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSer 128
Db      730 ACCCGGGGGCAGGAGCGGGGCGGAGCTCTCTACAGCAACTTGACGATCTGAAGTGG 671
Qy      129 Asn-----SerSerAspGluLeuSerTrpIleLeuLeuGluLeuAspGly 145
Db      670 AACGGCCAGTGCAGTAGTAC-----650
Qy      146 MetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAla 165
Db      649 ---CTGTTCAGTCCACACACATGTCATTGTCAAGACTGAACAACTGAGCCT-----599
Qy      166 GlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyPro 185
Db      598 ---TCCATCATGAACACCTCGAAGACNAGACTATTATATGACCAACTATGCT---545
Qy      186 GlyAlaProSerProGlySerSerAspValSerThrAlaArgThrAlaThrProGlnSer 205
Db      544 -----AGCACA-----539
Qy      206 SerHisAlaSerAspSerGlyGlySerAspValAspLeuAspLeuThrGluSerIysVal 225
Db      538 -----GTAGATTGTGGACGACCAAACT 515
Qy      226 PheProArgAspAspPhe-----ThrAspTyrIysGlyGlyGluProLys 240
Db      514 TTCTGCGGGCTCAGATCTCCATGACCAACCCAGTCACTCTCTCTGTCAGAGTCACT 455
Qy      241 HisGlyIysArgIysArgGlyArgProArgLysLeuSerIysGluTyrTrpAspCysLeu 260
Db      454 GATATGAAAAGGAGGACAGACCCCTCGCAAGTTCAGTCCAGTCCAGTCACT 410
Qy      261 GluGlyIysSerIysHisAlaProArgGlyThrHisLeuTrpGluPheIleArgAsp 280
Db      409 -----AAGCACACCCGAGGAGGACTCATTATGGGAATTCATCCGAC 365
Qy      281 IleuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGly 300
Db      364 ATCTCTTGACCCACACAGACCACTGATTAATAATGGAGACCACTGCTGAGGCT 305

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Qy	301	ValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsn	320
Db	304	GTCTTCAGGTTCTTGAATCAGAGCCAGTGGCTCAGCTATGGGTAAGAAGAACACAC	245
Qy	321	SerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGluIle	340
Db	244	AGCAGCATGACCTATGAAAGCTCAGCCGAGCTATGAGATATTACTACAAAAGAGAAATT	185
Qy	341	LeuGluArgValAspGlyArgArgLeuValTyrIysPheGlyLysAsnSerSerGlyTyr	360
Db	184	CTGGAGCGTGGGATGGACGAAGACTGGTATATAAATTGGGAAGAATGCCCGAGGATGG	125
Qy	361	LysGluGluGlu	364
Db	124	AGAGAAAATGAA	113

Search completed: February 12, 2004, 21:50:15  
 Job time : 105.27 secs





QY 7294 --TCTCTCGCCCTCTTGGAAATTACAGCCCGCGGTTTGAACCAACTTGT----- 7341  
Db 1394 CTCGCCACCCCTCTCTTGGAAATTACAGCCCGCGGTTTGAAGCTGACTTTATAGCTGCA 1453  
QY 7342 --TCGATTAACCTCTCCAGCTGTGATTCAGTTCCCTCCGTCCTCCCAACATGGAGCTGCAAT 7399  
Db 1454 AGTGATATCTCTTTTATCTGGTGCTCTCTCAACCCAGTCTCAGACACTTTAAATGCAGAC 1513  
QY 7400 GAGAC---CCACCTCGAGTCTCGGCTCAGCCAGAGGCTGGGAGACTGTGGCAGG 7456  
Db 1514 AACACTTCTCTCTGACAGACTTGGACTGAGCCAGAGGCTTGGAGGCTCT-----AG 1569  
QY 7457 AGACTGAGGAGCGAGGAGGAGAGGTTGTCTCTCGTATCTC---CTGGAGCTGCTTC 7513  
Db 1570 GGAGCACCCTGATGGAGAGGAGCAGAGCAGGCGCTCCAGCACTTCTTCTGAGCTGGCGTT 1629  
QY 7514 CACCTCTTCTGCTCAGTACTCAGGCTCCACAGAGCGGCTCGATCA--TCCCTAATTTATG 7572  
Db 1630 CACCTCCCTGCTCAGTCTTGGCTCCACGGGCGAGGCTCAGACACTCCCTAATTTATG 1689  
QY 7573 TGCTATA--AATATCCAGGTGTATATAGAGCTATTTTCTAAAGCACTTCCCTCC 7630  
Db 1690 TGCTATAAATATGTACATAGATCTATTTTCTAAACACTTCCCTCC 1749  
QY 7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
Db 1750 CACTCTCTCCACAGAGTCTGG 1773

## RESULT 2

US-09-570-593-4

; Sequence 4, Application US/09570593

; Patent No. 5566063

; GENERAL INFORMATION:

; APPLICANT: Kaufmann, Joerg

; APPLICANT: Xin, Hong

; APPLICANT: Harrowe, Greg

; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN

; FILE REFERENCE: 2300-1556

; CURRENT APPLICATION NUMBER: US/09/570,593

; CURRENT FILING DATE: 2000-05-12

; PRIOR APPLICATION NUMBER: 60/134,112

; PRIOR FILING DATE: 1999-05-14

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (96)...(1211)

; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)

; OTHER INFORMATION: protein.

US-09-570-593-4

Query Match 2.8%; Score 216; DB 4; Length 1907;

Best Local Similarity 66.7%; Pred. No. 2.3e-49;

Matches 456; Conservative 0; Mismatches 195; Indels 33; Gaps 9;

QY 6999 AGGTATTACTACAAACCGGAGACTCTGGAACGGGTGGATGCCGACGGCTCGTCTACAAG 7058

Db 1095 AGGTACTACTACAAACCGGAGACTCTGGAACGGGTGGATGCCGACGGCTCGTCTACAAG 1154

QY 7059 TTTCGCAAGACTCTAGTGGCTGGAAGAGAGAGGTTGAGAGAGCTCGAATTAAGA 7118

Db 1155 TTTCGCAAAACTCAACGGCTGGAAGAGAGAGGTTTCCAGAGTCCGAAGTGAAGG 1214

QY 7119 TCGGGGCTGGACCCAGGAGCTGACTCAGGCGATGAATCCAGAACTGAAGCTTCCCTGGAA 7178

Db 1215 TTGGAAGTATACCCGGGACCAAACTCAGGACCACTCGAGGCTCGAAACCTTCTTGGGA 1274

QY 7179 GGACAGGAGGCTGAGCGCCCTTAACATGGATGTCTCCCTGTGTCTGTAGAGAG 7238  
Db 1275 GGACAGGAGGCTGAGCGCGATGG-CCCTTCCACTGGGGAATGCTCCAGCTGTGTGTAGAGAG 1333  
QY 7239 GAAGAACCTGTGTGGCGTGCCTCTGC---AGTCTCTCAAGTGCAGGCTTTGGCCTC-- 7293  
Db 1334 AAGCTGATGTTTTGGTGTATTGTCTGAGCTCGGAGACTATGGCTCGC 1393  
QY 7294 --TCTCTCGCCCTCTTGGAAATTACAGCCCGCGGTTTGAACCAACTTGT----- 7341  
Db 1394 CTCGCCACCCCTCTCTTGGAAATTACAGCCCGCGGTTTGAAGCTGACTTTATAGCTGCA 1453  
QY 7342 --TCGATTAACCTCTCCAGCTGTGATTCAGTTCCCTCCGTCCTCCCAACATGGAGCTGCAAT 7399  
Db 1454 AGTGATATCTCTTTTATCTGGTGCTCTCTCAACCCAGTCTCAGACACTTTAAATGCAGAC 1513  
QY 7400 GAGAC---CCACCTCGAGTCTCGGCTCAGCCAGAGGCTGGGAGACTGTGGCAGG 7456  
Db 1514 AACACTTCTCTCTGACAGACTTGGACTGAGCCAGAGGCTTGGAGGCTCT-----AG 1569  
QY 7457 AGACTGAGGAGCGAGGAGGAGAGGTTGTCTCTCGTATCTC---CTGGAGCTGCTTC 7513  
Db 1570 GGAGCACCCTGATGGAGAGGAGCAGAGCAGGCGCTCCAGCACTTCTTCTGAGCTGGCGTT 1629  
QY 7514 CACCTCTTCTGCTCAGTACTCAGGCTCCACAGAGCGGCTCGATCA--TCCCTAATTTATG 7572  
Db 1630 CACCTCCCTGCTCAGTCTTGGCTCCACGGGCGAGGCTCAGACACTCCCTAATTTATG 1689  
QY 7573 TGCTATA--AATATCCAGGTGTATATAGAGCTATTTTCTAAAGCACTTCCCTCC 7630  
Db 1690 TGCTATAAATATGTACATAGATCTATTTTCTAAACACTTCCCTCC 1749  
QY 7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
Db 1750 CACTCTCTCCACAGAGTCTGG 1773

## RESULT 3

US-08-746-789A-1

; Sequence 1, Application US/08746789A

; Patent No. 5789200

; GENERAL INFORMATION:

; APPLICANT: Ismail Kola, Martin J. Tytums, Christine DeBouck

; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SmithKline Beecham Corporation

; STREET: 709 Swedeland Road, P.O. Box 1539

; CITY: King of Prussia

; STATE: PA

; COUNTRY: USA

; ZIP: 19406-0939

; COMPUTER READABLE FORM:

; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

; COMPUTER: IBM 486

; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS

; SOFTWARE: MICROSOFT WORD

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/746,789A

; FILING DATE: No. 5789200ember 15, 1996

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: William T. Han

; REGISTRATION NUMBER: 34,344

; REFERENCE/DOCKET NUMBER: ATG 50024

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 610 270 5219

; TELEFAX: 610 270 4026

; INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 1920  
 TYPE: Nucleic Acid  
 STRANDEDNESS: Single  
 TOPOLOGY: Linear  
 ANTI-SENSE: No  
 US-08-746-789A-1

Query Match 2.8%; Score 215.6; DB 1; Length 1920;  
 Best Local Similarity 65.6%; Pred. No. 3e-49;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY	6999	AGGTATTACTACAAACGGGAGATCTCTGGAAACGGTGGATGGCGGCGGCTCTCTACAG	7058
DB	1114	AGGTACTACTACAAACGGGAGATCTCTGGAAACGGTGGATGGCGGCGGCTCTCTACAG	1173
QY	7059	TTTGGCAAGAACTCTAGTGGCTGGAGGAGAGAGGTTGGAGAGTGGGAATTAAAGA	7118
DB	1174	TTTGGCAAAACTCTAGGCGCTGGAGGAGAGAGGTTTCCAGAGTGGGAATTAAAGA	1233
QY	7119	TCGGGGGTGACCCAGGACCTGACTCAGGCATGAACCTCCAGAACTGAAGCCTTCTCTGAA	7178
DB	1234	TTGGAACATAACCGGGACCAAACTCAGGACCACTCGAGGCTGCARACCTTCTCTGGA	1293
QY	7179	GGACAGCGGCTGACGGCCCTTAAACATGATGTTCCTGTGTTGCTGTAGAGAG	7238
DB	1294	GGACAGCGGCTGACGATGG--CCCTCCACTGGGGAATGCTCCAGCTGTGCTGTGAGAG	1352
QY	7239	GAAGAACTCTTGGGGTGGCTCTGC---AGTCTCTCAAGTGCAGCCTTTGGCTC--	7293
DB	1353	AGCTGATGTTTGGTGTATGTCAGCCATCGTCTGGGACTCGGAGCTATGGCTCGC	1412
QY	7294	--TCTCTCGCTCTTGGAAATTACAGCCCGGGTTTGAACCAACTTCTTGA	7345
DB	1413	CTCCCCACCTCTCTTGGAAATTACAGCCCGGGTTTGAAGCTGACTTATAGCTGA	1472
QY	7346	-----TAACCTCTCCAGCTGTGATTCAGTTCCTCCCGTCCCAACATGACTGCA	7397
DB	1473	AGTGTATCTCTTTATCTGGTGCCTCTCAACCCAGTCTAGACACTTAATGAGACA	1532
QY	7398	ATGAGACCCACCTGAGATGCTGGCTCAGCAAGGAGGCTGGGAGAGCTGTGGCAGA	7457
DB	1533	ACACCTCTCTCTGACACACTGGAAGTGAAGCTGAGCAGGAGGCTGGG--GAGGCTTAGG	1590
QY	7458	GACTGACGAGGAGGAGGAGGTTGTCTCTCG---TACTTCTGGACTGCTTC	7513
DB	1591	GAGCAGGATGAGAGAGGAGCAGGAGGCTCCAGACCTTCTTCTGGACTGGCGT	1650
QY	7514	CACCTCTTCTCAGTACTCAGGCTCCACAGAGGAGGCTGGATCA--TCCTTAATTATG	7572
DB	1651	CACCTCTCTCAGTCTGAGTCTGAGCTCCAGGAGGAGGCTGAGCACTCCCTAATTATG	1710
QY	7573	TGC--TATAAATATTCAGGTGTATATAGAGACTATTTTCTAAAGCAATTCCCTCC	7630
DB	1711	TGCTATATAAATATGTCAGATGTACATAGAGACTATTTTCTAAAGCAATTCCCTCC	1770
QY	7631	CTGCTCTTCTCAGTCTGCTG 7654	
DB	1771	CATCTCTCTCCACAGAGTCTG 1794	

RESULT 4

US-09-389-681-282  
 ; Sequence 282, Application US/09389681A  
 ; Patent No. 5519237  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yuqin, Jiang  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.470C8

SEQUENCE CHARACTERISTICS:  
 CURRENT FILING DATE: 1999-09-02  
 NUMBER OF SEQ ID NOS: 463  
 SOFTWARE: FastSeq for Windows Version 3.0  
 SEQ ID NO 282  
 LENGTH: 502  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-389-681-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;  
 Best Local Similarity 88.9%; Pred. No. 2.9e-35;  
 Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY	6256	CCCCCAGAGTACTCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	6315
DB	258	CGCCCGAGAGCACCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	317
QY	6316	AACGAAGGCTCTAAGTGGGAGAACCGGACAGAGGTGTTCAGTTTCTTCGCTCA	6375
DB	318	AACGAGGCGCTCTAAGTGGGAGAACCGGACAGAGGTGTTCAGTTTCTTCGCTCC	377
QY	6376	GAGCCCTGGCCCAACTCTGGGCCAGAGAGAGAACAGCAATGACCTATGAGAAG	6435
DB	378	GAGCCTGTGGCCCAACTCTGGGCCAAAGAGAGAACAGCAATGACCTATGAGAAG	437
QY	6436	CTGAGCCGAGCCATGAGGT 6454	
DB	438	CTGAGCCGAGCCATGAGGT 456	

RESULT 5

US-09-620-405B-282  
 ; Sequence 282, Application US/09620405B  
 ; Patent No. 6528054  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jiangu, Yudi  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Hepler, William T.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
 ; FILE REFERENCE: 210121.470C8  
 ; CURRENT APPLICATION NUMBER: US/09/620,405B  
 ; CURRENT FILING DATE: 2000-07-20  
 ; NUMBER OF SEQ ID NOS: 495  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-620-405B-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;  
 Best Local Similarity 88.9%; Pred. No. 2.9e-35;  
 Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY	6256	CCCCCAGAGTACTCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	6315
DB	258	CGCCCGAGAGCACCACCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTC	317
QY	6316	AACGAAGGCTCTAAGTGGGAGAACCGGACAGAGGTGTTCAGTTTCTTCGCTCA	6375
DB	318	AACGAGGCGCTCTAAGTGGGAGAACCGGACAGAGGTGTTCAGTTTCTTCGCTCC	377
QY	6376	GAGCCCTGGCCCAACTCTGGGCCAGAGAGAGAACAGCAATGACCTATGAGAAG	6435
DB	378	GAGCCTGTGGCCCAACTCTGGGCCAAAGAGAGAACAGCAATGACCTATGAGAAG	437
QY	6436	CTGAGCCGAGCCATGAGGT 6454	

Db 438 CTGAGCCGGCCATGAGGT 456

## RESULT 6

US-09-339-338-282  
; Sequence 282, Application US/09339338A  
; Patent No. 6573368

; GENERAL INFORMATION:

; APPLICANT: Yuqiu, Jiang

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.470C2

; CURRENT APPLICATION NUMBER: US/09/339,338A

; CURRENT FILING DATE: 1999-06-23

; NUMBER OF SEQ ID NOS: 315

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-339-338-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 2.9e-35;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGGTACTCACCCTGTGGAGTTTATCCGAGACATCCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGACATCCTCATCCACCCCGAGCTC 317

QY 6316 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGCTGTGTTCAAGTTTCTTCGCTCA 6375

Db 318 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGCTGTGTTCAAGTTTCTTCGCTCC 377

QY 6376 GAGGCGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 6435

Db 378 GAGGCTGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 437

QY 6436 CTGAGCCGGCCATGAGGT 6454

Db 438 CTGAGCCGGCCATGAGGT 456

## RESULT 7

US-09-433-826B-282

; Sequence 282, Application US/09433826B

; Patent No. 6579973

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE

; FILE REFERENCE: 210121.470C4

; CURRENT APPLICATION NUMBER: US/09/433,826B

; CURRENT FILING DATE: 1999-11-03

; NUMBER OF SEQ ID NOS: 474

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-433-826B-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 2.9e-35;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGGTACTCACCCTGTGGAGTTTATCCGAGACATCCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGACATCCTCATCCACCCCGAGCTC 317

QY 6316 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGCTGTGTTCAAGTTTCTTCGCTCA 6375

Db 318 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGCTGTGTTCAAGTTTCTTCGCTCC 377

QY 6376 GAGGCGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 6435

Db 378 GAGGCTGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 437

QY 6436 CTGAGCCGGCCATGAGGT 6454

Db 438 CTGAGCCGGCCATGAGGT 456

## RESULT 8

US-09-604-287A-282

; Sequence 282, Application US/09604287A

; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER

; FILE REFERENCE: 210121.470C7

; CURRENT APPLICATION NUMBER: US/09/604,287A

; CURRENT FILING DATE: 2000-06-22

; NUMBER OF SEQ ID NOS: 489

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 282

; LENGTH: 502

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-604-287A-282

Query Match 2.1%; Score 163.8; DB 4; Length 502;

Best Local Similarity 88.9%; Pred. No. 2.9e-35;

Matches 177; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 6256 GCCCCAGAGGTACTCACCCTGTGGAGTTTATCCGAGACATCCTTAATCCACCCCGAGCTC 6315

Db 258 GCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGACATCCTCATCCACCCCGAGCTC 317

QY 6316 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGCTGTGTTCAAGTTTCTTCGCTCA 6375

Db 318 AACGAGGCTCATGAGTGGGAGAACCGGACGAGGCTGTGTTCAAGTTTCTTCGCTCC 377

QY 6376 GAGGCGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 6435

Db 378 GAGGCTGTGGCCCAACTCTGGGGCCAGAGAAAGAACAGCAATGACCTATGAGAAG 437

QY 6436 CTGAGCCGGCCATGAGGT 6454

Db 438 CTGAGCCGGCCATGAGGT 456

## RESULT 9

US-09-016-434-927

; Sequence 927, Application US/09016434

; Patent No. 6500938

; GENERAL INFORMATION:

; APPLICANT: Janice Au-Young

; APPLICANT: Jeffrey J. Seilhamer

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING

; TITLE OF INVENTION: PATHWAY GENE EXPRESSION

; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
;; STREET: 3174 PORTER DRIVE  
;; CITY: PALO ALTO  
;; STATE: CALIFORNIA  
;; COUNTRY: USA  
;; ZIP: 94304  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/016,434  
;; FILING DATE: HEREWITH  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; CLASSIFICATION:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Zeller, Karen J.  
;; REGISTRATION NUMBER: 37,071  
;; REFERENCE/DOCKET NUMBER: PA-0002 US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (650) 855-0555  
;; TELEFAX: (650) 845-4166  
;; INFORMATION FOR SEQ ID NO: 927:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 237 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; IMMEDIATE SOURCE:  
;; LIBRARY: COLNCR01  
;; CLONE: 773734  
;; US-09-016-434-927

Query Match 1.6%; Score 125.6; DB 4; Length 237;  
Best Local Similarity 79.3%; Pred. No. 6.9e-25;  
Matches 149; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 6999 AGGTATATCTACAAACGGAGATCTCGGAACGGGTGGATGGCGGACGGCTGCTCTACAAAG 7058  
Db 50 AGGTATCTACAAACGGAGATCTCGGAACGGGTGGATGGCGGACGGCTGCTCTACAAAG 109  
QY 7059 TTGGCAAGAACTCTAGTGGCTGGAGAGGAAGAGGTTGGAGAGAGTCGGAATTAAGGA 7118  
Db 110 TTGGCAAAACTCAAGCGGCTGGAGAGGAGAGGTTCTCCAGAGTCGGAAGTGGG 169  
QY 7119 TCGGGCTGGACCCAGGACTGACTCAGGCATGAATCCAGAACTGAAGCCTTCTCGAA 7178  
Db 170 TTGGAACTATACCGGGACCAAACTCAGGACCACTCGAGGCTGCAAACTTCTCTGGA 229  
QY 7179 GGACAGGC 7186  
Db 230 GGACAGGC 237

RESULT 10  
US-09-245-041-4  
; Sequence 4, Application US/09245041  
; Patent No. 6274339  
; GENERAL INFORMATION:  
; APPLICANT: Moore, K.  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT  
; OF BODY WEIGHT DISORDERS INCLUDING OBESITY  
; FILE REFERENCE: 7853-136  
; CURRENT APPLICATION NUMBER: US/09/245,041  
; FILING DATE: 1999-02-05  
; EARLIER APPLICATION NUMBER: 60/093,630  
; EARLIER FILING DATE: 1998-07-21  
; EARLIER APPLICATION NUMBER: 60/104,978

;; EARLIER FILING DATE: 1998-10-20  
;; NUMBER OF SEQ ID NOS: 131  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 4  
;; LENGTH: 5973  
;; TYPE: DNA  
;; ORGANISM: Mus musculus  
;; US-09-245-041-4

Query Match 1.6%; Score 123.6; DB 3; Length 5973;  
Best Local Similarity 67.4%; Pred. No. 2e-23;  
Matches 174; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

QY 1841 TTTGTTCTGTAGTTTATGTTTTCAGACAGAGTTCTCTGTGTAGCCCTGGTGCCTG 1900  
Db 5390 TTTGTTTTCATTTTCGTTTTCAGACAGAGGTTTCTGTGTATAGCCCTGGTGCCTG 5449  
QY 1901 GAACCTACTCTGTAGACAAGCTGGCTCGAATCGAATCGAATCTTCTACCTTACTTCAG 1960  
Db 5450 GAACCTACTCTGTAGACCAGCTGGCTCGAATCGAATCTTCTACCTTACTTCAG 5509  
QY 1961 GAGTGTGGGATTAAAGATGTCGCTGCCCTCTCCACCCCAATTTGTTTGTGTTTAA 2020  
Db 5510 AAATGCTGGGATTAAAGTGTGTGCCACACCCAGCCTAAAGATTTTCTTACTAAA 5569  
QY 2021 AGGCCCCCGGTAAACAGTAATTAACATGTGCATCTGTTGCTTTGTAATGACTCAA 2080  
Db 5570 ATATATTTCTAAATTAATTAAGTTGGAATCTGGTTCATCTCTTTTGAACAAACCAG 5629  
QY 2081 TGTGGGCTTCTGACCAC 2098  
Db 5630 CATTTTTCATTTCTAC 5647

RESULT 11  
US-09-020-956-44/c  
; Sequence 44, Application US/09020956  
; Patent No. 6261562  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
; NUMBER OF SEQUENCES: 178  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED AND BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/020,956  
; FILING DATE: 09-FEB-1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.427C2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 852 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cdna

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; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-44

Query Match      1.5%; Score 115.4; DB 3; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCAGAGGTACTCACCCTGTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
Db 401 CCCAGAGGGACTCACCCTGTGGGAGTTTATCCGAGACATCTTCTTGAACCCAGACAGAA 342

QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGACGAGGGGTGTTTCAAGTTTCTTCGCTCAGA 6377
Db 341 CCCAGGATTATAAATGGGAGACCGATCTGAGGGGCTTTCAGGTTCTTGAATCAGA 282

QY 6378 GGCCGTGGCCCAACTCTGGGGCCAGAGAAAGAAAGAACAGCAACATGACCTATGAGAAGCT 6437
Db 281 GGCAGTGGCTCAGCTATGGGGTAAAAAGAAAGAACACAGCAGCATGACCTATGAAAAGCT 222

QY 6438 GAGCCGAGCCATGAGGT 6454
Db 221 CAGCCGAGCTATGAGAT 205

```

```

RESULT 13
US-09-439-313-44/c
; Sequence 44, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)-(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-439-313-44

```

```

Query Match      1.5%; Score 115.4; DB 4; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCAGAGGTACTCACCCTGTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
Db 401 CCCAGAGGGACTCACCCTGTGGGAGTTTATCCGAGACATCTTCTTGAACCCAGACAGAA 342

QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGACGAGGGGTGTTTCAAGTTTCTTCGCTCAGA 6377
Db 341 CCCAGGATTATAAATGGGAGACCGATCTGAGGGGCTTTCAGGTTCTTGAATCAGA 282

QY 6378 GGCCGTGGCCCAACTCTGGGGCCAGAGAAAGAAAGAACAGCAACATGACCTATGAGAAGCT 6437
Db 281 GGCAGTGGCTCAGCTATGGGGTAAAAAGAAAGAACACAGCAGCATGACCTATGAAAAGCT 222

QY 6438 GAGCCGAGCCATGAGGT 6454
Db 221 CAGCCGAGCTATGAGAT 205

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RESULT 14
US-09-352-616A-44/c
; Sequence 44, Application US/09352616A

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; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-44

Query Match      1.5%; Score 115.4; DB 3; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCAGAGGTACTCACCCTGTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317
Db 401 CCCAGAGGGACTCACCCTGTGGGAGTTTATCCGAGACATCTTCTTGAACCCAGACAGAA 342

QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGACGAGGGGTGTTTCAAGTTTCTTCGCTCAGA 6377
Db 341 CCCAGGATTATAAATGGGAGACCGATCTGAGGGGCTTTCAGGTTCTTGAATCAGA 282

QY 6378 GGCCGTGGCCCAACTCTGGGGCCAGAGAAAGAAAGAACAGCAACATGACCTATGAGAAGCT 6437
Db 281 GGCAGTGGCTCAGCTATGGGGTAAAAAGAAAGAACACAGCAGCATGACCTATGAAAAGCT 222

QY 6438 GAGCCGAGCCATGAGGT 6454
Db 221 CAGCCGAGCTATGAGAT 205

```

```

RESULT 12
US-09-030-607-44/c
; Sequence 44, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 852 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-44

```

```

Query Match      1.5%; Score 115.4; DB 3; Length 852;
Best Local Similarity 74.1%; Pred. No. 1.1e-21;
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 6258 CCCAGAGGTACTCACCCTGTGGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317

```

Patent No. 6395278  
GENERAL INFORMATION:  
APPLICANT: Dillon, Davin C.  
APPLICANT: Harlocker, Susan Louise  
APPLICANT: Jiang, Yuqi  
APPLICANT: Xu, Jiangchun  
APPLICANT: Mitcham, Jennifer Lynn  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
FILE REFERENCE: 210121.427C8  
CURRENT APPLICATION NUMBER: US/09/352,616A  
CURRENT FILING DATE: 1999-07-13  
NUMBER OF SEQ ID NOS: 472  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 44  
LENGTH: 852  
TYPE: DNA  
ORGANISM: Homo sapien  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(852)  
OTHER INFORMATION: n = A,T,C or G  
US-09-352-616A-44

Query Match 1.5%; Score 115.4; DB 4; Length 852;  
Best Local Similarity 74.1%; Pred No. 1.1e-21;  
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;  
QY 6258 CCCAGAGTACTCAGCTGTGGAGTTTATCCGAGACATCTTAATCCACCCGAGCTCAA 6317  
DB 401 CCCAGAGGAGCTCACTTATGGGANTTCATCCCGACATCCTCTTGAACCCAGACAGAA 342  
QY 6318 CGAAGGCTCATGAAGTGGGAGAACCGGCGACGAGGGTGTGTTCAAGTTTCTTCGCTCAGA 6377  
DB 341 CCCAGGATTAAATAAATGGGAAGACCGATCTGAGGGCGTCTTCAGGTTCTTGAATCAGA 282  
QY 6378 GGCCTGGCCCACTCTGGGGCCAGAGAGAGACAGACATGACCTATGAGAAGCT 6437  
DB 281 GGCAGTGGCTCAGCTATGGGTTAAAGAAGAACAAACAGGATGACCTATGAAAAGCT 222  
QY 6438 GAGCCGAGCCATGAGGT 6454  
DB 221 CAGCCGAGCTATGAGAT 205

RESULT 15  
US-09-232-149A-44/C  
Sequence 44, Application US/09232149A  
Patent No. 6465611  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer Lynn  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE  
FILE REFERENCE: 210121.427C6  
CURRENT APPLICATION NUMBER: US/09/232,149A  
CURRENT FILING DATE: 1999-01-15  
NUMBER OF SEQ ID NOS: 338  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 44  
LENGTH: 852  
TYPE: DNA  
ORGANISM: Homo sapien  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(852)  
OTHER INFORMATION: n = A,T,C or G  
US-09-232-149A-44

Query Match 1.5%; Score 115.4; DB 4; Length 852;  
Best Local Similarity 74.1%; Pred. No. 1.1e-21;  
Matches 146; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

Search completed: February 13, 2004, 01:55:04  
Job time : 448.897 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 / Search time 1.20792 Seconds  
(without alignments)  
7673.534 Million cell updates/sec

Title: US-08-978-217-14

Perfect score: 21  
Sequence: 1 GTACTCATGCGCCGGCTCAG 21

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/5A COMB.seq: \*  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq: \*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq: \*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq: \*  
5: /cgn2\_6/ptodata/1/ina/PCTUS COMB.seq: \*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	21	100.0	237	4	US-09-016-434-927
C 2	21	100.0	502	4	US-09-389-681-282
C 3	21	100.0	502	4	US-09-620-405B-282
C 4	21	100.0	502	4	US-09-339-338-282
C 5	21	100.0	502	4	US-09-433-826B-282
C 6	21	100.0	502	4	US-09-604-287A-282
C 7	21	100.0	1307	4	US-09-308-958A-27
C 8	21	100.0	1907	4	US-09-570-593-4
C 9	21	100.0	1320	1	US-08-746-789A-1
C 10	16.4	78.1	5499	3	US-08-479-722B-1
C 11	16.4	78.1	5502	5	PCT-US95-02251-17
C 12	16.2	77.1	2266	2	US-09-213-767-1
C 13	16.2	77.1	4403765	3	US-09-103-840A-2
C 14	16.2	77.1	4403765	3	US-09-103-840A-2
C 15	16.2	77.1	4411529	3	US-09-103-840A-1
C 16	16.2	77.1	4411529	3	US-09-103-840A-1
C 17	15.8	75.2	671	3	US-09-129-030-29
C 18	15.8	75.2	1479	4	US-08-868-373-3
C 19	15.8	75.2	1533	4	US-09-522-217-88
C 20	15.8	75.2	2224	4	US-09-221-017B-384
C 21	15.8	75.2	2877	4	US-09-619-353-1
C 22	15.8	75.2	3072	4	US-09-522-217-55
C 23	15.4	73.3	1935	4	US-09-495-050A-190
C 24	15.2	72.4	848	3	US-09-009-913-338
C 25	15.2	72.4	856	4	US-09-535-008-55
C 26	15.2	72.4	2218	4	US-09-350-457A-1
C 27	15.2	72.4	2385	3	US-08-352-902D-145

C 28	15.2	72.4	2484	2	US-08-209-521-8	Sequence 8, Appli
C 29	15.2	72.4	2484	3	US-08-961-810-4	Sequence 4, Appli
C 30	15.2	72.4	2484	3	US-08-352-902D-4	Sequence 4, Appli
C 31	15.2	72.4	2484	4	US-09-265-503B-4	Sequence 4, Appli
C 32	15.2	72.4	2484	4	US-09-708-200-16	Sequence 16, Appli
C 33	15.2	72.4	2484	4	US-08-294-312B-1	Sequence 1, Appli
C 34	15.2	72.4	2525	4	US-08-468-024B-1	Sequence 1, Appli
C 35	15.2	72.4	2525	4	US-08-187-757D-1	Sequence 1, Appli
C 36	15.2	72.4	2525	4	US-08-469-412A-1	Sequence 1, Appli
C 37	15.2	72.4	2667	2	US-09-021-715-1	Sequence 1, Appli
C 38	15.2	72.4	4953	4	US-09-620-312D-240	Sequence 240, App
C 39	15	71.4	827	3	US-09-333-593-5	Sequence 5, Appli
C 40	15	71.4	827	4	US-09-499-781-5	Sequence 5, Appli
C 41	15	71.4	870	3	US-09-333-599-1	Sequence 1, Appli
C 42	15	71.4	870	4	US-09-499-781-1	Sequence 1, Appli
C 43	14.8	70.5	778	3	US-08-998-416-220	Sequence 220, App
C 44	14.8	70.5	1021	3	US-09-095-117-5	Sequence 5, Appli
C 45	14.8	70.5	1030	3	US-09-095-117-7	Sequence 7, Appli

## ALIGNMENTS

RESULT 1  
US-09-016-434-927/c  
; Sequence 927, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREMITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 927:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 237 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNCR01  
; CLONE: 773734  
US-09-016-434-927

Query Match 100.0%; Score 21; DB 4; Length 237;  
Best Local Similarity 100.0%; Pred. No. 0.3;



Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21  
Db 55 GTACCTCATGGCCCGGCTCAG 35

## RESULT 2

US-09-389-681-282/c  
; Sequence 282, Application US/09389681A  
; Patent No. 6518237  
; GENERAL INFORMATION:  
; APPLICANT: Yuqiu, Jiang  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C3  
; CURRENT APPLICATION NUMBER: US/09/389,681A  
; CURRENT FILING DATE: 1999-09-02  
; NUMBER OF SEQ ID NOS: 463  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-389-681-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21  
Db 458 GTACCTCATGGCCCGGCTCAG 438

## RESULT 3

US-09-620-405B-282/c  
; Sequence 282, Application US/09620405B  
; Patent No. 6528054  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
; FILE REFERENCE: 210121.470C8  
; CURRENT APPLICATION NUMBER: US/09/620,405B  
; CURRENT FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 495  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-620-405B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21  
Db 458 GTACCTCATGGCCCGGCTCAG 438

## RESULT 4

US-09-339-338-282/c

; Sequence 282, Application US/09339338A

; Patent No. 6573368  
; GENERAL INFORMATION:  
; APPLICANT: Yuqiu, Jiang  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C2  
; CURRENT APPLICATION NUMBER: US/09/339,338A  
; CURRENT FILING DATE: 1999-06-23  
; NUMBER OF SEQ ID NOS: 315  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-339-338-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21  
Db 458 GTACCTCATGGCCCGGCTCAG 438

## RESULT 5

US-09-433-826B-282/c  
; Sequence 282, Application US/09433826B  
; Patent No. 6579973  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.470C4  
; CURRENT APPLICATION NUMBER: US/09/433,826B  
; CURRENT FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 474  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-433-826B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21  
Db 458 GTACCTCATGGCCCGGCTCAG 438

## RESULT 6

US-09-604-287A-282/c  
; Sequence 282, Application US/09604287A  
; Patent No. 6586572  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

;; TITLE OF INVENTION: DIAGNOSTICS OF BREAST CANCER  
;; FILE REFERENCE: 210121.470C7  
;; CURRENT APPLICATION NUMBER: US/09/604,287A  
;; CURRENT FILING DATE: 2000-06-22  
;; NUMBER OF SEQ ID NOS: 489  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 282  
;; LENGTH: 502  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-604-287A-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
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DB 458 GTACCTCATGGCCGGCTCAG 438

## RESULT 7

US-09-300-958A-27/c  
;; Sequence 27, Application US/09300958A  
;; Patent No. 6495319  
;; GENERAL INFORMATION:  
;; APPLICANT: McClelland, Michael  
;; APPLICANT: Welsh, John  
;; APPLICANT: Trenkle, Thomas  
;; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
;; FILE REFERENCE: P-PH 3457  
;; CURRENT APPLICATION NUMBER: US/09/300,958A  
;; CURRENT FILING DATE: 1999-04-27  
;; PRIOR APPLICATION NUMBER: 60/083,331  
;; PRIOR FILING DATE: 1998-04-27  
;; PRIOR APPLICATION NUMBER: 60/098,070  
;; PRIOR FILING DATE: 1998-08-27  
;; PRIOR APPLICATION NUMBER: 60/118,624  
;; PRIOR FILING DATE: 1999-02-04  
;; NUMBER OF SEQ ID NOS: 85  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 27  
;; LENGTH: 1907  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-300-958A-27

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
|||||  
DB 1100 GTACCTCATGGCCGGCTCAG 1080

## RESULT 8

US-09-570-593-4/c  
;; Sequence 4, Application US/09570593  
;; Patent No. 6566653  
;; GENERAL INFORMATION:  
;; APPLICANT: Kaufmann, Joerg  
;; APPLICANT: Xin, Hong  
;; APPLICANT: Harrowe, Greg  
;; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
;; FILE REFERENCE: 2300-1556  
;; CURRENT APPLICATION NUMBER: US/09/570,593  
;; CURRENT FILING DATE: 2000-05-12  
;; PRIOR APPLICATION NUMBER: 60/134,112  
;; PRIOR FILING DATE: 1999-05-14  
;; NUMBER OF SEQ ID NOS: 13

;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 4  
;; LENGTH: 1907  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: (96)...(1211)  
;; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
;; OTHER INFORMATION: protein.  
US-09-570-593-4

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
|||||  
DB 1100 GTACCTCATGGCCGGCTCAG 1080

## RESULT 9

US-08-746-789A-1/c  
;; Sequence 1, Application US/08746789A  
;; Patent No. 5789200  
;; GENERAL INFORMATION:  
;; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
;; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3  
;; NUMBER OF SEQUENCES: 4  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: SmithKline Beecham Corporation  
;; STREET: 709 Swedeland Road, P.O. Box 1539  
;; CITY: King of Prussia  
;; STATE: PA  
;; COUNTRY: USA  
;; ZIP: 19406-0939  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
;; COMPUTER: IBM 486  
;; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
;; SOFTWARE: MICROSOFT WORD  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/746,789A  
;; FILING DATE: No. 5789200ember 15, 1996  
;; CLASSIFICATION: 514  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: William T. Han  
;; REGISTRATION NUMBER: 34,344  
;; REFERENCE/DOCKET NUMBER: ATG 50024  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 610 270 5219  
;; TELEFAX: 610 270 4026  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 1920  
;; TYPE: Nucleic Acid  
;; STRANDEDNESS: Single  
;; TOPOLOGY: Linear  
;; ANTI-SENSE: No  
US-08-746-789A-1

Query Match 100.0%; Score 21; DB 1; Length 1920;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCGGCTCAG 21  
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DB 1119 GTACCTCATGGCCGGCTCAG 1099

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RESULT 10
US-08-479-722B-1/c
; Sequence 1, Application US/08479722B
; Patent No. 6074840
; GENERAL INFORMATION:
; APPLICANT: Bonadio, Jeffrey
; APPLICANT: Yin, Wushan
; TITLE OF INVENTION: LATENT TGF( BINDING PROTEIN (LTBP)
; TITLE OF INVENTION: GENES, COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Williams, Morgan & Amerson
; STREET: 7676 Hillmont, Suite 250
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77040
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,722B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US PCT/US95/02251
; FILING DATE: 21-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/315,650
; FILING DATE: 30-SEP-1994
; APPLICATION DATA:
; APPLICATION NUMBER: US 08/199,780
; FILING DATE: 18-FEB-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fussey, Shelley P.M.
; REGISTRATION NUMBER: 39,458
; REFERENCE/DOCKET NUMBER: 4100.000500/FUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 934-7000
; TELEFAX: (713) 934-7011
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; DESCRIPTION: /desc = "DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..5499
US-08-479-722B-1

Query Match 78.1%; Score 16.4; DB 3; Length 5499;
Best Local Similarity 94.4%; Pred. No. 49;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ACCTCATGCGCCGGCTCA 20
Db 3158 ACCTCATAGCCCGGCTCA 3141

RESULT 11
PCT-US95-02251-17/c
; Sequence 17, Application PC/TUS9502251
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR STIMULATING BONE
; TITLE OF INVENTION: CELLS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States of America
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: Patent In Release #1.0, Version
; SOFTWARE: #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02251
; FILING DATE: CONCURRENTLY HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/316,650
; FILING DATE: 30-SEP-1994
; CLASSIFICATION:
; APPLICATION NUMBER: US 08/199,780
; FILING DATE: 18-FEB-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, David L.
; REGISTRATION NUMBER: 32,165
; REFERENCE/DOCKET NUMBER: UMIC009P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5502 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..5502
PCT-US95-02251-17

Query Match 78.1%; Score 16.4; DB 5; Length 5502;
Best Local Similarity 94.4%; Pred. No. 49;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ACCTCATGCGCCGGCTCA 20
Db 3158 ACCTCATAGCCCGGCTCA 3141

RESULT 12
US-09-213-767-1/c
; Sequence 1, Application US/09213767
; Patent No. 5948680
; GENERAL INFORMATION:
; APPLICANT: Brenda F. Baker
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF ELK-1 EXPRESSION
; FILE REFERENCE: RTS-0024
; CURRENT APPLICATION NUMBER: US/09/213,767
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 1
; LENGTH: 2266
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (316)..(1602)
US-09-213-767-1

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Query Match      77.1%; Score 16.2; DB 2; Length 2266;
Best Local Similarity 85.7%; Pred. No. 59;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 513 GTACCGCAGGCCCGGCTGAG 493

RESULT 13
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      77.1%; Score 16.2; DB 3; Length 4403765;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 4316894 GGACCTGATGGCCCGGCTCGG 4316914

RESULT 14
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      77.1%; Score 16.2; DB 3; Length 4403765;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 513 GTACCGCAGGCCCGGCTGAG 493

RESULT 15
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      77.1%; Score 16.2; DB 3; Length 4411529;
Best Local Similarity 85.7%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTACCTCATGGCCCGGCTCAG 21
Db 4324638 GGACCTGATGGCCCGGCTCGG 4324658

Search completed: February 13, 2004, 01:55:01
Job time : 20.2079 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 ; Search time 1.20792 Seconds  
(without alignments)  
7673.534 Million cell updates/sec

Title: US-08-978-217-13

Perfect score: 21 CCGGACATCTCTATCCACCC 21  
Sequence:

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/ptodata/1/ina/5A COMB.seq:  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq:  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq:  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq:  
5: /cgn2\_6/ptodata/1/ina/PTUS COMB.seq:  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	ID	Description
1	21	100.0	4	US-09-389-681-282
2	21	100.0	502	Sequence 282, App
3	21	100.0	502	Sequence 282, App
4	21	100.0	502	Sequence 282, App
5	21	100.0	502	Sequence 282, App
6	21	100.0	1907	Sequence 27, Appli
7	21	100.0	1907	Sequence 4, Appli
8	21	100.0	1907	Sequence 1, Appli
9	16.4	78.1	1086	Sequence 99, Appli
10	16.2	77.1	165	Sequence 1, Appli
11	16.2	77.1	165	Sequence 1, Appli
12	16.2	77.1	361	Sequence 303, App
13	16.2	77.1	361	Sequence 303, App
14	16.2	77.1	361	Sequence 303, App
15	16.2	77.1	361	Sequence 303, App
16	16.2	77.1	427	Sequence 567, App
17	16.2	77.1	1228	Sequence 9, Appli
18	16.2	77.1	1228	Sequence 9, Appli
19	16.2	77.1	1228	Sequence 5, Appli
20	16.2	77.1	1228	Sequence 5, Appli
21	16.2	77.1	1228	Sequence 5, Appli
22	16.2	77.1	1228	Sequence 5, Appli
23	16.2	77.1	1228	Sequence 9, Appli
24	15.8	75.2	718	Sequence 10470, A
25	15.8	75.2	1362	Sequence 162, App
26	15.8	75.2	1626	Sequence 10598, A
27	15.8	75.2	1684	Sequence 287, App

28	15.8	75.2	2190	4	US-09-252-991A-10256	Sequence 10256, A
29	15.2	72.4	432	4	US-09-252-991A-880	Sequence 880, App
30	15.2	72.4	510	4	US-09-252-991A-4285	Sequence 4285, App
31	15.2	72.4	636	4	US-09-702-705-1668	Sequence 1668, App
32	15.2	72.4	636	4	US-09-736-457-1668	Sequence 1668, App
33	15.2	72.4	1002	4	US-09-252-991A-11872	Sequence 11872, A
34	15.2	72.4	1026	4	US-09-129-033-1	Sequence 1, Appli
35	15.2	72.4	1068	4	US-09-252-991A-15054	Sequence 15054, A
36	15.2	72.4	1074	4	US-09-516-914-16	Sequence 16, Appli
37	15.2	72.4	1103	4	US-09-892-074-1	Sequence 1, Appli
38	15.2	72.4	1281	4	US-09-252-991A-856	Sequence 856, App
39	15.2	72.4	1320	3	US-08-461-775-8	Sequence 8, Appli
40	15.2	72.4	1320	3	US-09-031-606-8	Sequence 8, Appli
41	15.2	72.4	1464	4	US-09-252-991A-11508	Sequence 11508, A
42	15.2	72.4	1515	3	US-09-292-768-5	Sequence 5, Appli
43	15.2	72.4	1527	4	US-09-252-991A-815	Sequence 815, App
44	15.2	72.4	1620	2	US-08-461-775-10	Sequence 10, Appli
45	15.2	72.4	1620	3	US-09-031-606-10	Sequence 10, Appli

## ALIGNMENTS

RESULT 1  
US-09-389-681-282  
; Sequence 282, Application US/09389681A  
; Patent No. 6518237  
; GENERAL INFORMATION:  
; APPLICANT: Yuqui, Jiang  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; FILE REFERENCE: 210121.470C3  
; CURRENT APPLICATION NUMBER: US/09/389,681A  
; CURRENT FILING DATE: 1999-09-02  
; NUMBER OF SEQ ID NOS: 463  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-389-681-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.92;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACCC 21  
Db 290 CCGGACATCTCTATCCACCC 310

RESULT 2  
US-09-620-405B-282  
; Sequence 282, Application US/09620405B  
; Patent No. 6528054  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.470C8  
; CURRENT APPLICATION NUMBER: US/09/620,405B  
; CURRENT FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 495  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282

LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-620-405B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.92;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21  
DB 290 CCGGACATCTCTCATCCACC 310

## RESULT 3

US-09-339-338-282  
Sequence 282, Application US/09339338A  
Patent No. 6573368  
GENERAL INFORMATION:  
APPLICANT: Yuqiu, Jiang  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.470C2  
CURRENT APPLICATION NUMBER: US/09/339,338A  
CURRENT FILING DATE: 1999-06-23  
NUMBER OF SEQ ID NOS: 315  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-339-338-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.92;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21  
DB 290 CCGGACATCTCTCATCCACC 310

## RESULT 4

US-09-433-826B-282  
Sequence 282, Application US/09433826B  
Patent No. 6579973  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yuqiu  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Harlocker, Susan L.  
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.470C4  
CURRENT APPLICATION NUMBER: US/09/433,826B  
CURRENT FILING DATE: 1999-11-03  
NUMBER OF SEQ ID NOS: 474  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-433-826B-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.92;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21

DB 290 CCGGACATCTCTCATCCACC 310

## RESULT 5

US-09-604-287A-282  
Sequence 282, Application US/09604287A  
Patent No. 6586572  
GENERAL INFORMATION:  
APPLICANT: Jiang, Yuqiu  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Xu, Jiangchun  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Harker, William T.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
FILE REFERENCE: 210121.470C7  
CURRENT APPLICATION NUMBER: US/09/604,287A  
CURRENT FILING DATE: 2000-06-22  
NUMBER OF SEQ ID NOS: 489  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 282  
LENGTH: 502  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-604-287A-282

Query Match 100.0%; Score 21; DB 4; Length 502;  
Best Local Similarity 100.0%; Pred. No. 0.92;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21  
DB 290 CCGGACATCTCTCATCCACC 310

## RESULT 6

US-09-300-958A-27  
Sequence 27, Application US/09300958A  
Patent No. 6495319  
GENERAL INFORMATION:  
APPLICANT: McClelland, Michael  
APPLICANT: Welsh, John  
APPLICANT: Frankle, Thomas  
TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
TITLE OF INVENTION: Using Same  
FILE REFERENCE: P-PH 3457  
CURRENT APPLICATION NUMBER: US/09/300,958A  
CURRENT FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/083,331  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/098,070  
PRIOR FILING DATE: 1998-08-27  
PRIOR APPLICATION NUMBER: 60/118,624  
PRIOR FILING DATE: 1999-02-04  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 27  
LENGTH: 1907  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-300-958A-27

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 1;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACC 21  
DB 932 CCGGACATCTCTCATCCACC 952

## RESULT 7

US-09-570-593-4  
; Sequence 4, Application US/09570593  
; Patent No. 6566063  
; GENERAL INFORMATION:  
; APPLICANT: Kaufmann, Joerg  
; APPLICANT: Kin, Hong  
; APPLICANT: Harrowe, Greg  
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
; TITLE OF INVENTION: CANCER  
; FILE REFERENCE: 2300-1556  
; CURRENT APPLICATION NUMBER: US/09/570,593  
; CURRENT FILING DATE: 2000-05-12  
; PRIOR APPLICATION NUMBER: 60/134,112  
; PRIOR FILING DATE: 1999-05-14  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (96)...(1211)  
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
; OTHER INFORMATION: Protein.  
US-09-570-593-4

Query Match 100.0%; Score 21; DB 4; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 1;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACCC 21

DB 932 CCGGACATCTCTCATCCACCC 952

## RESULT 8

US-08-746-789A-1  
; Sequence 1, Application US/08746789A  
; Patent No. 5789200  
; GENERAL INFORMATION:  
; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SmithKline Beecham Corporation  
; STREET: 709 Swedeland Road, P.O. Box 1539  
; CITY: King of Prussia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19406-0939  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
; COMPUTER: IBM 486  
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
; SOFTWARE: MICROSOFT WORD  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/746,789A  
; FILING DATE: No. 5789200ember 15, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: William T. Han  
; REGISTRATION NUMBER: 34,344  
; REFERENCE/DOCKET NUMBER: ATG 50024  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610 270 5219  
; TELEFAX: 610 270 4026  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:

; LENGTH: 1920  
; TYPE: Nucleic Acid  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear  
; ANTI-SENSE: NO  
US-08-746-789A-1

Query Match 100.0%; Score 21; DB 1; Length 1920;  
Best Local Similarity 100.0%; Pred. No. 1;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGACATCTCTCATCCACCC 21

DB 951 CCGGACATCTCTCATCCACCC 971

## RESULT 9

US-09-328-352-99/c  
; Sequence 99, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 99  
; LENGTH: 1086  
; TYPE: DNA  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-99

Query Match 78.1%; Score 16.4; DB 4; Length 1086;  
Best Local Similarity 94.4%; Pred. No. 1.1e-02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GGACATCTCTCATCCACCC 21

DB 75 GGACATCTCTCATCCACCC 58

## RESULT 10

US-08-456-647B-1/c  
; Sequence 1, Application US/08456647B  
; Patent No. 5811516  
; GENERAL INFORMATION:  
; APPLICANT: Lemke Ph.D. et al., Greg E.  
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson P.C.  
; STREET: 4225 Executive Square, Suite 1400  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: US  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/456,647B  
; FILING DATE: 02-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/237,401  
; FILING DATE: 02-MAY-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/884,486  
; FILING DATE: 15-MAY-1992

```
; ATTORNEY/AGENT INFORMATION:
; NAME: Wetherell Ph.D., John R.
; REGISTRATION NUMBER: 31,678
; REFERENCE/DOCKET NUMBER: 07251/007002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; IMMEDIATE SOURCE:
; CLONE: Tyro-1
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..165
US-08-456-647B-1

Query Match 77.1%; Score 16.2; DB 1; Length 165;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACC 21
Db 76 CCGGTCATCTCTCAAGCACCC 56

RESULT 11
US-08-237-401A-1/c
; Sequence 1, Application US/08237401A
; Patent No. 5837448
; GENERAL INFORMATION:
; APPLICANT: Lemke Ph.D. et al., Greg E.
; TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/237,401A
; FILING DATE: 02-MAY-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/884,486
; FILING DATE: 15-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile Ph.D., Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07251/007001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 165 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; IMMEDIATE SOURCE:
; CLONE: Tyro-1

; ATTORNEY/AGENT INFORMATION:
; NAME/KEY: CDS
; LOCATION: 1..165
US-08-237-401A-1

Query Match 77.1%; Score 16.2; DB 1; Length 165;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACC 21
Db 76 CCGGTCATCTCTCAAGCACCC 56

RESULT 12
US-09-643-597-303
; Sequence 303, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(361)
; OTHER INFORMATION: n = A, T, C or G
US-09-643-597-303

Query Match 77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACC 21
Db 257 CCGGACGTCCTCCCCACC 277

RESULT 13
US-09-480-884A-303
; Sequence 303, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(361)
; OTHER INFORMATION: n = A,T,C or G
US-09-480-884A-303

Query Match          77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGGACATCCTCATCCACCC 21
    ||||| ||||| ||||| |||||
Db 257 CCGGGACGTCCTCCCCACCC 277

RESULT 14
US-09-542-615A-303
; Sequence 303, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(361)
; OTHER INFORMATION: n = A,T,C or G
US-09-542-615A-303
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Query Match          77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGGACATCCTCATCCACCC 21
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Db 257 CCGGGACGTCCTCCCCACCC 277
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RESULT 15
US-09-606-421B-303
; Sequence 303, Application US/09606421B
; Patent No. 6531315
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy R.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C9
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; CURRENT APPLICATION NUMBER: US/09/606,421B
; CURRENT FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 303
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(361)
; OTHER INFORMATION: n = A,T,C or G
US-09-606-421B-303

Query Match          77.1%; Score 16.2; DB 4; Length 361;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCGGGACATCCTCATCCACCC 21
    ||||| ||||| ||||| |||||
Db 257 CCGGGACGTCCTCCCCACCC 277

Search completed: February 13, 2004, 01:54:42
Job time : 2.20792 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 12, 2004, 19:34:21 ; Search time 4.03329 Seconds  
(without alignments)  
1750.959 Million cell updates/sec

Title: US-08-978-217-12

Perfect score: 84

Sequence: 1 KNSGCKBEEVLQSRN 16

Scoring table:

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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA.\*  
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2: /cgn2\_6/prodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/prodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/prodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/prodata/1/ina/PCUS COMB.seq.\*  
6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	84	100.0	237	4	US-09-016-434-927 Sequence 927, Appl
2	84	100.0	463	4	US-09-300-958A-25 Sequence 25, Appl
3	84	100.0	1907	4	US-09-300-958A-27 Sequence 27, Appl
4	84	100.0	1907	4	US-09-570-593-4 Sequence 4, Appl
5	84	100.0	1920	1	US-08-746-789A-1 Sequence 1, Appl
6	46	54.8	1348	4	US-09-638-649-6 Sequence 6, Appl
7	46	54.8	8100	4	US-09-554-337-4 Sequence 4, Appl
8	46	54.8	11517	1	US-07-920-281C-1 Sequence 1, Appl
9	46	54.8	11517	3	US-08-466-277-1 Sequence 1, Appl
10	46	54.8	15538	4	US-09-554-337-1 Sequence 1, Appl
11	45	53.6	993	4	US-09-464-535-25 Sequence 25, Appl
12	45	53.6	7492	4	US-09-299-141-5 Sequence 5, Appl

C 13	45	53.6	10627	1	US-08-060-925A-12 Sequence 12, Appl
C 14	44	52.4	2763	4	US-09-668-680-8 Sequence 8, Appl
C 15	44	52.4	3396	4	US-09-668-680-6 Sequence 6, Appl
C 16	44	52.4	3423	4	US-09-668-680-7 Sequence 7, Appl
C 17	44	52.4	50000	4	US-09-146-053-4 Sequence 4, Appl
C 18	43	51.2	4417	3	US-07-741-453A-57 Sequence 57, Appl
C 19	43	51.2	8543	3	US-08-496-944-1 Sequence 1, Appl
C 20	42.5	50.6	6396	4	US-09-620-312D-226 Sequence 226, App
21	42	50.0	634	2	US-08-537-400-15 Sequence 15, Appl
22	42	50.0	694	2	US-08-706-702-17 Sequence 17, Appl
23	42	50.0	694	3	US-08-706-702-17 Sequence 17, Appl
24	42	50.0	694	4	US-09-238-471-17 Sequence 17, Appl
C 25	42	50.0	1265	4	US-09-702-705-95 Sequence 95, Appl
C 26	42	50.0	1265	4	US-09-736-457-95 Sequence 95, Appl
C 27	42	50.0	1485	3	US-08-484-661A-38 Sequence 38, Appl
28	42	50.0	1485	3	US-08-656-664-38 Sequence 38, Appl
29	42	50.0	1485	5	PCT-US96-09641-38 Sequence 38, Appl
30	42	50.0	1716	3	US-08-484-661A-36 Sequence 36, Appl
31	42	50.0	1716	3	US-08-656-664-36 Sequence 36, Appl
32	42	50.0	1716	5	PCT-US96-09641-36 Sequence 36, Appl
33	42	50.0	1737	3	US-08-484-661A-10 Sequence 10, Appl
34	42	50.0	1737	3	US-08-656-664-10 Sequence 10, Appl
35	42	50.0	1737	5	PCT-US96-09641-10 Sequence 10, Appl
36	42	50.0	1789	3	US-09-257-584-6 Sequence 6, Appl
37	42	50.0	1833	3	US-08-484-661A-7 Sequence 7, Appl
38	42	50.0	1833	3	US-08-484-661A-15 Sequence 15, Appl
39	42	50.0	1833	3	US-08-484-661A-18 Sequence 18, Appl
40	42	50.0	1833	3	US-08-484-661A-22 Sequence 22, Appl
41	42	50.0	1833	3	US-08-484-661A-25 Sequence 25, Appl
42	42	50.0	1833	3	US-08-484-661A-28 Sequence 28, Appl
43	42	50.0	1833	3	US-08-484-661A-32 Sequence 32, Appl
44	42	50.0	1833	3	US-08-484-661A-34 Sequence 34, Appl
45	42	50.0	1833	3	US-08-656-664-7 Sequence 7, Appl

#### ALIGNMENTS

RESULT 1  
US-09-016-434-927  
; Sequence 927, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREMITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555

```

; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 927:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 237 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: COLNCR101
; CLONE: 773734
US-09-016-434-927

Alignment Scores:
Pred. No.: 9.19e-07 Length: 237
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-016-434-927 (1-237)

Qy 1 LysAsnSerSerGlyTTPtLysGluGluValLeuGlnSerArgAsn 16
Db 116 AAAAAGCTCAGCGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAC 163

RESULT 2
US-09-300-958A-25
; Sequence 25, Application US/09300958A
; Patent No. 6495319
; GENERAL INFORMATION:
; APPLICANT: McClelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Treinkle, Thomas
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/09/300,958A
; CURRENT FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-300-958A-27

Alignment Scores:
Pred. No.: 1.09e-05 Length: 1907
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-300-958A-27 (1-1907)

Qy 1 LysAsnSerSerGlyTTPtLysGluGluValLeuGlnSerArgAsn 16
Db 1161 AAAAAGCTCAGCGCTGGAAGAGAGAGGTTCTCCAGAGTCGGAC 1208

RESULT 4
US-09-570-593-4
; Sequence 4, Application US/09570593
; Patent No. 6566063
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Joerg
; APPLICANT: Xin, Hong
; APPLICANT: Harrowe, Greg
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN
; FILE REFERENCE: 2300-1556
; CURRENT APPLICATION NUMBER: US/09/570,593
; CURRENT FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 60/134,112
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1907
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (96)....(1211)
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)
US-09-570-593-4

Alignment Scores:
Pred. No.: 1.09e-05 Length: 1907
Score: 84.00 Matches: 16
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Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-570-593-4 (1-1907)

QY 1 LysAsnSerSerGlyTyrPlyGluGluValLeuGlnSerArgAsn 16  
DB 1161 AAAAATCAAGCGCTGGAAGAGGAGAGGTTCTCCAGAGTCGGAAC 1208

RESULT 5  
US-08-746-789A-1  
; Sequence 1, Application US/08746789A  
; Patent No. 5789200  
; GENERAL INFORMATION:  
; APPLICANT: Ismail Kola, Martin J. Tyums, Christine DeBouck  
; TITLE OF INVENTION: A No. 5789200el Human BTS Family Member, ELF3  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SmithKline Beecham Corporation  
; STREET: 709 Swedeland Road, P.O. Box 1539  
; CITY: King of Prussia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19406-0939  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
; COMPUTER: IBM 486  
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
; SOFTWARE: MICROSOFT WORD  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/746,789A  
; FILING DATE: NO. 5789200el 15, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: William T. Han  
; REGISTRATION NUMBER: 34,344  
; REFERENCE/DOCKET NUMBER: ATG 50024  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610 270 5219  
; TELEFAX: 610 270 4026  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1920  
; TYPE: Nucleic Acid  
; STRANDEDNESS: Single  
; TOPOLOGY: Linear  
; ANTI-SENSE: NO  
US-08-746-789A-1

Alignment Scores:  
Pred. No.: 1,le-05 Length: 1920  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 1 Gaps: 0

US-08-978-217-12 (1-16) x US-08-746-789A-1 (1-1920)

QY 1 LysAsnSerSerGlyTyrPlyGluGluValLeuGlnSerArgAsn 16  
DB 1180 AAAAATCAAGCGCTGGAAGAGGAGAGGTTCTCCAGAGTCGGAAC 1227

RESULT 6  
US-09-638-649-6/c  
; Sequence 6, Application US/09638649  
; Patent No. 6563015  
; GENERAL INFORMATION:

; APPLICANT: Stern, David M.  
; APPLICANT: Schmidt, Ann Marie  
; APPLICANT: Yan, Shi Du  
; TITLE OF INVENTION: TRANSGENIC MICE OVER-EXPRESSING RECEPTOR FOR ADVANCED  
; TITLE OF INVENTION: GLYCATION ENDPRODUCT (RAGE) AND MUTANT APP IN BRAIN AND  
; TITLE OF INVENTION: USES THEREOF  
; FILE REFERENCE: 0575/62175  
; CURRENT APPLICATION NUMBER: US/09/638,649  
; CURRENT FILING DATE: 2000-08-14  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1348  
; TYPE: DNA  
; ORGANISM: Murine  
US-09-638-649-6

Alignment Scores:  
Pred. No.: 39.9 Length: 1348  
Score: 46.00 Matches: 8  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 54.76% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-638-649-6 (1-1348)

QY 2 AsnSerSerGlyTyrPlyGluGlu 9  
DB 275 AATTCAGTGGCTGGAAGAGGAG 252

RESULT 7  
US-09-554-337-4  
; Sequence 4, Application US/09554337  
; Patent No. 6475780  
; GENERAL INFORMATION:  
; APPLICANT: Parrington, Mark  
; APPLICANT: Li, Xiaomao  
; APPLICANT: Klein, Michel H.  
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES  
; FILE REFERENCE: 1038-1042 MIS  
; CURRENT APPLICATION NUMBER: US/09/554,337  
; CURRENT FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/065,791  
; PRIOR FILING DATE: 1997-11-14  
; PRIOR APPLICATION NUMBER: PCT/CA98/01064  
; PRIOR FILING DATE: 1998-11-13  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 8100  
; TYPE: DNA  
; ORGANISM: respiratory syncytial virus  
US-09-554-337-4

Alignment Scores:  
Pred. No.: 335 Length: 8100  
Score: 46.00 Matches: 7  
Percent Similarity: 85.71% Conservative: 5  
Best Local Similarity: 50.00% Mismatches: 2  
Query Match: 54.76% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-554-337-4 (1-8100)

QY 3 SerSerGlyTyrPlyGluGluValLeuGlnSerArgAsn 16  
DB 397 GCCACAACTGGCGGAGGAGGAGGTTCTCCAGGCGGAAC 438

RESULT 8  
US-07-920-281C-1  
; Sequence 1, Application US/07920281C  
; Patent No. 5739026



US-08-978-217-12 (1-16) x US-08-466-277-1 (1-11517)  
Qy 3 SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16  
Db 675 GCACAACTGGCCGACGACGCGGTGTACAGCCAGGAAC 716

## RESULT 10

US-09-554-337-1  
; Sequence 1, Application US/09554337  
; Patent No. 6475780  
; GENERAL INFORMATION:  
; APPLICANT: Parrington, Mark  
; APPLICANT: Li, Xiaomao  
; APPLICANT: Klein, Michel H.  
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES  
; FILE REFERENCE: 1038-1042 MIS  
; CURRENT APPLICATION NUMBER: US/09/554,337  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/065,791  
; PRIOR FILING DATE: 1997-11-14  
; PRIOR APPLICATION NUMBER: PCT/CA98/01064  
; PRIOR FILING DATE: 1998-11-13  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 15538  
; TYPE: DNA  
; ORGANISM: respiratory syncytial virus  
US-09-554-337-1

Alignment Scores:  
Pred. No.: 727 Length: 15538  
Score: 46.00 Matches: 7  
Percent Similarity: 85.71% Conservative: 5  
Best Local Similarity: 50.00% Mismatches: 2  
Query Match: 54.76% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-554-337-1 (1-15538)  
Qy 3 SerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16  
Db 3221 GCACAACTGGCCGACGACGCGGTGTACAGCCAGGAAC 3262

## RESULT 11

US-09-464-535-25/c  
; Sequence 25, Application US/09464535  
; Patent No. 6545200  
; GENERAL INFORMATION:  
; APPLICANT: Famodu, Omolayo O.  
; APPLICANT: Caboon, Rebecca E.  
; APPLICANT: Sakai, Hajime  
; APPLICANT: McGonigle, Brian  
; APPLICANT: Rafalski, J. Antoni  
; TITLE OF INVENTION: STEROL BIOSYNTHETIC ENZYMES  
; FILE REFERENCE: BB1306 US NA  
; CURRENT APPLICATION NUMBER: US/09/464,535  
; CURRENT FILING DATE: 1999-12-15  
; EARLIER APPLICATION NUMBER: 60/112,555  
; EARLIER FILING DATE: 1998-12-16  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 25  
; LENGTH: 993  
; TYPE: DNA  
; ORGANISM: Glycine max  
US-09-464-535-25

Alignment Scores:  
Pred. No.: 41.8 Length: 993  
Score: 45.00 Matches: 9  
Percent Similarity: 78.57% Conservative: 2  
Best Local Similarity: 64.29% Mismatches: 3

Query Match: 53.57% Indels: 0  
DB: 4 Gaps: 0  
US-08-978-217-12 (1-16) x US-09-464-535-25 (1-993)  
Qy 2 AsnSerGlyTrpLysGluGluValLeuGlnSerArg 15  
Db 661 TCCAGCAGCGGATGGCAATGATCATCAGGGTATTACATCCAGG 620

## RESULT 12

US-09-299-141-5/c  
; Sequence 5, Application US/09299141  
; Patent No. 6461606  
; GENERAL INFORMATION:  
; APPLICANT: FLOTTE, TERENCE R.  
; APPLICANT: SONG, SIHONG  
; APPLICANT: BYRNE, BARRY J.  
; APPLICANT: MORGAN, MICHAEL  
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY  
; FILE REFERENCE: 4300.011800  
; CURRENT APPLICATION NUMBER: US/09/299,141  
; CURRENT FILING DATE: 1999-04-23  
; EARLIER APPLICATION NUMBER: 60/083,025  
; EARLIER FILING DATE: 1998-04-24  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 7492  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:p43C-AT-IN  
US-09-299-141-5

Alignment Scores:  
Pred. No.: 460 Length: 7492  
Score: 45.00 Matches: 10  
Percent Similarity: 61.90% Conservative: 3  
Best Local Similarity: 47.62% Mismatches: 2  
Query Match: 53.57% Indels: 6  
DB: 4 Gaps: 1

US-08-978-217-12 (1-16) x US-09-299-141-5 (1-7492)

Qy 2 AsnSerGlyTrp-----LysGluGluValLeuGlnSerArg 15  
Db 813 AACGCTCAGCGCTGTGACCACTTACCTTTAAAGAGATGTAATTCACGAGCAAA 754  
Qy 16 Asn 16  
Db 753 AAC 751

## RESULT 13

US-08-060-925A-12/c  
; Sequence 12, Application US/08060925A  
; Patent No. 5439824  
; GENERAL INFORMATION:  
; APPLICANT: Brantley, Mark  
; APPLICANT: Laubach, Victor  
; TITLE OF INVENTION: INCREASED EXPRESSION OF ALPHA-1  
; TITLE OF INVENTION: ANTITRIPSIN IN EXPRESSION VECTORS THROUGH THE INCLUSION OF  
; TITLE OF INVENTION: INTRON II  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: KNOBBE, MARTENS, OLSON AND BEAR  
; STREET: 620 NEWPORT CENTER DRIVE SIXTEENTH FLOOR  
; CITY: NEWPORT BEACH  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92660  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/060,925A
; FILING DATE: 06-MAY-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael L.
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH040.001A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-235-8550
; TELEFAX: 619-235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10627 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-060-925A-12

Alignment Scores:
Pred. No.: 697 Length: 10627
Score: 45.00 Matches: 10
Percent Similarity: 61.90% Conservative: 3
Best Local Similarity: 47.62% Mismatches: 2
Query Match: 53.57% Indels: 6
DB: 1 Gaps: 1

US-08-978-217-12 (1-16) x US-08-060-925A-12 (1-10627)
Qy 2 AsnSerSerglyTrp-----LysGluGluGluValLeuGlnSerArg 15
Db 6394 AACAGCTCAGGCTGGTGGAGCAACCTTACCTTTAAAGAGATGATTAATTCACGAGCAAA 6335
Qy 16 Asn 16
Db 6334 AAC 6332

RESULT 14
US-09-668-680-8/c
; Sequence 8, Application US/09668680
; Patent No. 6436703
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Xu, Chongjun
; APPLICANT: Dmanac, Radoje T.
; TITLE OF INVENTION: No. 6436703el Nucleic Acids and
; FILE REFERENCE: 790CIP2A
; CURRENT FILING DATE: 2000-09-22
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 8
; LENGTH: 2763
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(2375)
US-09-668-680-6

Alignment Scores:
Pred. No.: 271 Length: 3396
Score: 44.00 Matches: 8
Percent Similarity: 66.67% Conservative: 2
Best Local Similarity: 53.33% Mismatches: 5
Query Match: 52.38% Indels: 0
DB: 4 Gaps: 0

US-08-978-217-12 (1-16) x US-09-668-680-6 (1-3396)
Qy 2 AsnSerSerglyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 1975 TCCAGCTCTGGTGGTGAAGTCTTCTCTTTGCCAGCTCTAGAAAC 1931

Search completed: February 12, 2004, 21:50:03
Job time : 9.03329 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run On: February 12, 2004, 19:34:21 ; Search time 21.1748 Seconds  
(without alignments)  
1750.959 Million cell updates/sec

Title: US-08-978-217-7

Perfect score: 445

Sequence: 1 NCAELRLVFGPLDQLHA.....ELLDDGQASPYHPGCGAG 84

Scoring table:

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2\_1/USPTO.spool/US08978217/runat\_10022004\_133826\_20481/app\_query.fasta\_1.1500  
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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US08978217 -CGN 1\_115 -runat\_10022004\_133826\_20481 -NCPU=6 -ICPU=3  
-NO MWAP -LARGESCORES -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA.\*  
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2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PTUS.COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	445	100.0	1907	4	US-09-300-958A-27
2	445	100.0	1907	4	US-09-570-593-4
3	445	100.0	1920	1	US-08-746-789A-1
4	73.5	16.5	624	4	US-09-252-991A-13629
5	73.5	16.5	801	4	US-09-252-991A-13919
6	72	16.2	521	4	US-09-404-879A-139
7	72	16.2	521	4	US-09-338-933-139
8	72	16.2	521	4	US-09-215-681-139
9	72	16.2	551	4	US-09-404-879A-92
10	72	16.2	551	4	US-09-338-933-92
11	72	16.2	551	4	US-09-215-681-92
12	72	16.2	555	4	US-09-404-879A-107

C 13	72	16.2	555	4	US-09-338-933-107	Sequence 107, Appl
C 14	72	16.2	555	4	US-09-215-681-107	Sequence 107, Appl
C 15	72	16.2	2301	1	US-08-306-691B-23	Sequence 23, Appl
C 16	72	16.2	2301	1	US-09-167-206-3	Sequence 3, Appl
C 17	72	16.2	2301	5	PCT-US93-06251-78	Sequence 78, Appl
C 18	71.5	16.1	3141	2	US-08-956-242-1	Sequence 1, Appl
C 19	71.5	16.1	3141	3	US-09-351-215-1	Sequence 1, Appl
C 20	67.5	15.2	1011	4	US-09-252-991A-7550	Sequence 7550, Ap
C 21	67.5	15.2	1062	4	US-09-252-991A-7788	Sequence 7788, Ap
C 22	66.5	14.9	534	4	US-09-252-991A-12113	Sequence 12113, A
C 23	66.5	14.9	624	4	US-09-252-991A-12252	Sequence 12252, A
C 24	66.5	14.9	849	4	US-09-252-991A-11100	Sequence 11100, A
C 25	66.5	14.9	852	4	US-09-252-991A-10964	Sequence 10964, A
C 26	66.5	14.9	1473	4	US-09-518-914-7	Sequence 7, Appl
C 27	66	14.8	1594	2	US-08-955-713-1	Sequence 1, Appl
C 28	66	14.8	4154	1	US-08-131-365B-37	Sequence 37, Appl
C 29	66	14.8	4154	2	US-08-668-133-37	Sequence 37, Appl
C 30	65.5	14.7	444	4	US-09-252-991A-7864	Sequence 7864, Ap
C 31	65.5	14.7	11282	4	US-09-754-250-3	Sequence 3, Appl
C 32	64.5	14.5	576	4	US-09-252-991A-7380	Sequence 7380, Ap
C 33	64.5	14.5	756	4	US-09-252-991A-7245	Sequence 7245, Ap
C 34	64.5	14.5	915	4	US-09-252-991A-7455	Sequence 7455, Ap
C 35	64.5	14.5	3546	1	US-08-162-809-9	Sequence 9, Appl
C 36	64.5	14.5	3591	1	US-08-162-809-13	Sequence 13, Appl
C 37	64.5	14.5	3807	1	US-08-357-598-1	Sequence 1, Appl
C 38	64.5	14.5	3807	2	US-09-003-289-1	Sequence 1, Appl
C 39	64.5	14.5	3807	5	PCT-US95-16435-1	Sequence 1, Appl
C 40	64	14.4	3805	4	US-09-220-132-9	Sequence 9, Appl
C 41	64	14.4	32207	2	US-08-770-379-20	Sequence 20, Appl
C 42	64	14.4	32207	3	US-08-757-668A-20	Sequence 20, Appl
C 43	64	14.4	32207	4	US-09-230-371A-20	Sequence 20, Appl
C 44	63.5	14.3	1575	4	US-09-134-001C-516	Sequence 516, App
C 45	63.5	14.3	3103	4	US-09-268-480-10	Sequence 10, Appl

#### ALIGNMENTS

##### RESULT 1

US-09-300-958A-27  
Sequence 27, Application US/09300958A  
Patent No. 6495319

GENERAL INFORMATION:

APPLICANT: McClelland, Michael

APPLICANT: Welsh, John

APPLICANT: Trenkle, Thomas

TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of

TITLE OF INVENTION: Using Same

FILE REFERENCE: P-PH 3457

CURRENT APPLICATION NUMBER: US/09/300,958A

CURRENT FILING DATE: 1999-04-27

PRIOR APPLICATION NUMBER: 60/083,331

PRIOR FILING DATE: 1998-04-27

PRIOR APPLICATION NUMBER: 60/098,070

PRIOR FILING DATE: 1998-08-27

PRIOR APPLICATION NUMBER: 60/118,624

PRIOR FILING DATE: 1999-02-04

NUMBER OF SEQ ID NOS: 85

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 27

LENGTH: 1907

TYPE: DNA

ORGANISM: Homo sapiens

US-09-300-958A-27

Alignment Scores:

Pred. No.: 9.25e-51

Score: 445.00

Percent Similarity: 100.00%

Best Local Similarity: 100.00%

Query Match: 100.00%

DB: 4

Length: 1907

Matches: 84

Conservative: 0

Mismatches: 0

Indels: 0

Gaps: 0

US-08-978-217-7 (1-84) x US-09-300-958A-27 (1-1907)



QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
 Db 405 AATTGTGCCCTTGGAGAGCTGCTGTGGTCTTTGGGCTCTTGGGGACCACTCCATGCC 464  
 QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuLeuLeu 40  
 Db 465 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTGGATCATTGAGCTGCTG 524  
 QY 41 GluLeuAspGlyMetAlaPheGlnGluLeuAspProGlyProPheAspGlnGlySer 60  
 Db 525 GAGAAGATGGCATGGCTTCCAGGAGGCTTCCAGGAGGCTTCCAGGAGGCTTCCAGGAGGCT 584  
 QY 61 ProPheAlaGlnGluLeuAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
 Db 585 CCCTTGGCCAGGAGCTGCTGGACGACGGTCAGCAAGCCAGCCCTTACCACCCCGGCAGC 644  
 QY 81 CysGlyAlaGly 84  
 Db 645 TGTGGCGCAGGA 656

RESULT 2

US-09-570-593-4  
 ; Sequence 4, Application US/09570593  
 ; Patent No. 6566063  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kaufmann, Joerg  
 ; APPLICANT: Xiu, Hong  
 ; APPLICANT: Harrowe, Greg  
 ; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
 ; TITLE OF INVENTION: CANCER  
 ; FILE REFERENCE: 2300-1556  
 ; CURRENT APPLICATION NUMBER: US/09/570,593  
 ; CURRENT FILING DATE: 2000-05-12  
 ; PRIOR APPLICATION NUMBER: 60/134,112  
 ; PRIOR FILING DATE: 1999-05-14  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 1907  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (96)...(1211)  
 ; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
 ; OTHER INFORMATION: protein.  
 US-09-570-593-4

Alignment Scores:  
 Pred. No.: 9,256-51 Length: 1907  
 Score: 445.00 Matches: 84  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 4 Gaps: 0

US-08-978-217-7 (1-84) x US-09-570-593-4 (1-1907)

QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
 Db 405 AATTGTGCCCTTGGAGAGCTGCTGTGGTCTTTGGGCTCTTGGGGACCACTCCATGCC 464  
 QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuLeuLeu 40  
 Db 465 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTGGATCATTGAGCTGCTG 524  
 QY 41 GluLeuAspGlyMetAlaPheGlnGluLeuAspProGlyProPheAspGlnGlySer 60  
 Db 525 GAGAAGATGGCATGGCTTCCAGGAGGCTTCCAGGAGGCTTCCAGGAGGCTTCCAGGAGGCT 584  
 QY 61 ProPheAlaGlnGluLeuAspGlyGlnGlnAlaSerProTyrHisProGlySer 80

Db 585 CCCTTGGCCAGGAGCTGCTGGACGAGCTCAGCAAGCCAGCCCTTACCACCCCGGCAGC 644  
 QY 81 CysGlyAlaGly 84  
 Db 645 TGTGGCGCAGGA 656

RESULT 3

US-08-746-789A-1  
 ; Sequence 1, Application US/08746789A  
 ; Patent No. 5789200  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
 ; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELF3  
 ; NUMBER OF SEQUENCES: 4  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SmithKline Beecham Corporation  
 ; STREET: 709 Swedeland Road, P.O. Box 1539  
 ; CITY: King of Prussia  
 ; STATE: PA  
 ; COUNTRY: USA  
 ; ZIP: 19406-0939  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
 ; COMPUTER: IBM 486  
 ; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
 ; SOFTWARE: MICROSOFT WORD  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/746,789A  
 ; FILING DATE: No. 5789200elember 15, 1996  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: William T. Han  
 ; REGISTRATION NUMBER: 34,344  
 ; REFERENCE/DOCKET NUMBER: ATG 50024  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 610 270 5219  
 ; TELEFAX: 610 270 4026  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; LENGTH: 1920  
 ; TYPE: Nucleic Acid  
 ; STRANDEDNESS: Single  
 ; TOPOLOGY: Linear  
 ; ANTI-SENSE: No  
 US-08-746-789A-1

Alignment Scores:  
 Pred. No.: 9,336-51 Length: 1920  
 Score: 445.00 Matches: 84  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 1 Gaps: 0

US-08-978-217-7 (1-84) x US-08-746-789A-1 (1-1920)

QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
 Db 424 AATTGTGCCCTTGGAGAGCTGCTGTGGTCTTTGGGCTCTTGGGGACCACTCCATGCC 483  
 QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuLeuLeu 40  
 Db 484 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTGGATCATTGAGCTGCTG 543  
 QY 41 GluLeuAspGlyMetAlaPheGlnGluLeuAspProGlyProPheAspGlnGlySer 60  
 Db 544 GAGAAGATGGCATGGCTTCCAGGAGGCTTCCAGGAGGCTTCCAGGAGGCTTCCAGGAGGCT 603  
 QY 61 ProPheAlaGlnGluLeuAspGlyGlnGlnAlaSerProTyrHisProGlySer 80



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Db 228 AGTGGCCAGGCGCTCTCTGACGACGGTCCAGCTCTTCTTCAACCAAGCTGGATCTACGGTT 169
Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
Db 168 CAAGGAGGCCACCTCAGCCTCAGCCTGTTCCCGGCCCGCTTTCTCCCT-CAACTTCTC 110
Qy 68 AspAspGlnGlnAlaSerProTyrHis-----ProGlySer 80
Db 109 GCTGGAGCGCTCAGCTCGCTCTCTGTCATCATCTGCTGCTGCTGTCAGAACCTGATCT 50
Qy 81 CysGlyAla 83
Db 49 TGGCGTTCA 41

RESULT 7
US-09-338-933-139/c
; Sequence 139, Application US/09338933
; Patent No. 648931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.462C1
; CURRENT APPLICATION NUMBER: US/09/338,933
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 139
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(521)
; OTHER INFORMATION: n = A,T,C or G
US-09-338-933-139
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Alignment Scores:
Pred. No.: 0.61 Length: 521
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-139 (1-521)
Qy 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 333 GAGTTCCATCTTTTCTTCATCTTTTAAGGCCCGGTTTCAATAACCTTCATCTCTCTC 274
Qy 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuGluLys 42
Db 273 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 229
Qy 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 228 AGTGGCCAGGCGCTCTCTGACGACGGTCCAGCTCTTCTTCAACCAAGCTGGATCTACGGTT 169
Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
Db 168 CAAGGAGGCCACCTCAGCCTCAGCCTGTTCCCGGCCCGCTTTCTCCCT-CAACTTCTC 110
Qy 68 AspAspGlnGlnAlaSerProTyrHis-----ProGlySer 80
Db 109 GCTGGAGCGCTCAGCTCGCTCTCTGTCATCATCTGCTGCTGCTGTCAGAACCTGATCT 50
Qy 81 CysGlyAla 83
Db 49 TGGCGTTCA 41
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RESULT 8
US-09-215-681-139/c
; Sequence 139, Application US/09215681A
; Patent No. 6528253
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Frudakis, Tony N.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
; TITLE OF INVENTION: OVARIAN CANCER
; FILE REFERENCE: 210121.463
; CURRENT APPLICATION NUMBER: US/09/215,681A
; CURRENT FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 310
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 139
; LENGTH: 521
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(521)
; OTHER INFORMATION: n = A,T,C or G
US-09-215-681-139

Alignment Scores:
Pred. No.: 0.61 Length: 521
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 4 Gaps: 5

US-08-978-217-7 (1-84) x US-09-215-681-139 (1-521)
Qy 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 333 GAGTTCCATCTTTTCTTCATCTTTTAAGGCCCGGTTTCAATAACCTTCATCTCTCTC 274
Qy 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuGluLys 42
Db 273 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCCAGCTTTTTCAGGGC 229
Qy 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 228 AGTGGCCAGGCGCTCTCTGACGACGGTCCAGCTCTTCTTCAACCAAGCTGGATCTACGGTT 169
Qy 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67
Db 168 CAAGGAGGCCACCTCAGCCTCAGCCTGTTCCCGGCCCGCTTTCTCCCT-CAACTTCTC 110
Qy 68 AspAspGlnGlnAlaSerProTyrHis-----ProGlySer 80
Db 109 GCTGGAGCGCTCAGCTCGCTCTCTGTCATCATCTGCTGCTGCTGTCAGAACCTGATCT 50
Qy 81 CysGlyAla 83
Db 49 TGGCGTTCA 41

RESULT 9
US-09-404-879A-92/c
; Sequence 92, Application US/09404879A
; Patent No. 6468546
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; APPLICANT: Algate, Paul A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.462C2
; CURRENT APPLICATION NUMBER: US/09/404,879A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 393
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-404-879A-92

Alignment Scores:
Pred. No.: 0.657 Length: 551
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 5 Gaps: 5

US-08-978-217-7 (1-84) x US-09-404-879A-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTCTTCATCTTTTAAGCGCGGTTTCAATAACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIlelleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGCCAGGCGCTCTCTGAGCAGCGTCCAGCTCTTCTTCAACAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTCAGCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGGAGGCGCTCAGCTCGCTCTCTCGATCATCTGCTGCTGCTGAGAACCTGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGGCTTCA 62

RESULT 11
US-09-215-681-92/c
; Sequence 92, Application US/09215681A
; Patent No. 6528253
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Prudakis, Tony N.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS
; FILE REFERENCE: 210121.463
; CURRENT FILING DATE: 1998-12-17
; CURRENT APPLICATION NUMBER: US/09/215.681A
; NUMBER OF SEQ ID NOS: 310
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-215-681-92

Alignment Scores:
Pred. No.: 0.657 Length: 551
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 5 Gaps: 5

US-08-978-217-7 (1-84) x US-09-215-681-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22
Db 354 GAGTTCATCTTTTCTTCATCTTTTAAGCGCGGTTTCAATAACCTTTCATACCTCTCTC 295
QY 23 ArgAspLeuThrSerSerSerAspGluLeuSerTrpIlelleGluLeuGluLys 42
Db 294 ACTCTCATCAGCAGCTTTTTCAGC-----TTCTTCAGCTTTTTCAGGGC 250
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54
Db 249 AGTGCCAGGCGCTCTCTGAGCAGCGTCCAGCTCTTCTTCAACAGCTGGATCTACGGTT 190
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeuLeu 67
Db 189 CAAGGAGGCCACCTCAGCCTCAGCTGTTCGCGGCGCGCTTTCTCCCT-CAACTTCTC 131
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80
Db 130 GCTGGAGGCGCTCAGCTCGCTCTCTCGATCATCTGCTGCTGCTGAGAACCTGATCT 71
QY 81 CysGlyAla 83
Db 70 TGGGCTTCA 62

RESULT 10
US-09-338-933-92/c
; Sequence 92, Application US/09338933
; Patent No. 6488931
; GENERAL INFORMATION:
; APPLICANT: Mitcham, Jennifer Lynn
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF
; FILE REFERENCE: 210121.462C1
; CURRENT FILING DATE: 1999-06-23
; CURRENT APPLICATION NUMBER: US/09/338.933
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 92
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-338-933-92

Alignment Scores:
Pred. No.: 0.657 Length: 551
Score: 72.00 Matches: 31
Percent Similarity: 39.81% Conservative: 10
Best Local Similarity: 30.10% Mismatches: 32
Query Match: 16.18% Indels: 31
DB: 5 Gaps: 5

US-08-978-217-7 (1-84) x US-09-338-933-92 (1-551)
QY 6 GluLeuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22

```

QY 81 CysGlyAla 83  
|||  
Db 70 TGCCTTCA 62

## RESULT 12

US-09-404-879A-107/c

; Sequence 107, Application US/09404879A  
; Patent No. 6468546  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Algate, Paul A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.462C2  
; CURRENT APPLICATION NUMBER: US/09-404.879A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 333  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 107  
; LENGTH: 555  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-404-879A-107

Alignment Scores:  
Pred. No.: 0.663 Length: 555  
Score: 72.00 Matches: 31  
Percent Similarity: 39.81% Conservative: 10  
Best Local Similarity: 30.10% Mismatches: 32  
Query Match: 16.18% Indels: 31  
Gaps: 5  
DB:

US-08-978-217-7 (1-84) x US-09-404-879A-107 (1-555)

QY 6 GluleuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22  
Db 358 GAGTTCATCTTTTCTTTCATCTTTTAAAGCCCGGTTTCAATAACCTTCATCTCTCTC 299  
QY 23 ArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42  
Db 298 ACTCTCATCAGCAGCTTTTCAGC-----TTCCTCCAGCTTTTGCAGGC 254  
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54  
Db 253 AGTGCCAGGCGCTCCTGAGCAGCTCCAGCTCTTCTTCAACAGCTGGATCTACGGTT 194  
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67  
Db 193 CAAGGAGGCCACCTCAGCCTGCTTCCCGGCCGCTTCTCCCT-CAACTTCTC 135  
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80  
Db 134 GCTGAGGCGCTCAGCTCGCTCTCTCATCTGCTGTGCTGCAGAACCTGGATCT 75  
QY 81 CysGlyAla 83  
|||  
Db 74 TGCCTTCA 66

## RESULT 13

US-09-338-933-107/c

; Sequence 107, Application US/09338933  
; Patent No. 648931  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Mitcham, Jennifer Lynn  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY OF  
; FILE REFERENCE: 210121.462C1  
; CURRENT APPLICATION NUMBER: US/09/338,933  
; CURRENT FILING DATE: 1999-06-23  
; NUMBER OF SEQ ID NOS: 312  
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 107  
; LENGTH: 555  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-338-933-107

Alignment Scores:  
Pred. No.: 0.663 Length: 555  
Score: 72.00 Matches: 31  
Percent Similarity: 39.81% Conservative: 10  
Best Local Similarity: 30.10% Mismatches: 32  
Query Match: 16.18% Indels: 31  
Gaps: 5  
DB:

US-08-978-217-7 (1-84) x US-09-338-933-107 (1-555)

QY 6 GluleuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22  
Db 358 GAGTTCATCTTTTCTTTCATCTTTTAAAGCCCGGTTTCAATAACCTTCATCTCTCTC 299  
QY 23 ArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLys 42  
Db 298 ACTCTCATCAGCAGCTTTTCAGC-----TTCCTCCAGCTTTTGCAGGC 254  
QY 43 AspGlyMetAla-----PheGlnGluAlaLeuAspProGly--- 54  
Db 253 AGTGCCAGGCGCTCCTGAGCAGCTCCAGCTCTTCTTCAACAGCTGGATCTACGGTT 194  
QY 55 -----ProPheAspGlnGlySerProPheAlaGlnGluLeu 67  
Db 193 CAAGGAGGCCACCTCAGCCTGCTTCCCGGCCGCTTCTCCCT-CAACTTCTC 135  
QY 68 AspAspGlyGlnGlnAlaSerProTyHis-----ProGlySer 80  
Db 134 GCTGAGGCGCTCAGCTCGCTCTCTCATCTGCTGTGCTGCAGAACCTGGATCT 75  
QY 81 CysGlyAla 83  
|||  
Db 74 TGCCTTCA 66

## RESULT 14

US-09-215-681-107/c

; Sequence 107, Application US/09215681A  
; Patent No. 6528253  
; GENERAL INFORMATION:  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Frudakis, Tony N.  
; APPLICANT: King, Gordon E.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSIS  
; FILE REFERENCE: 210121.463  
; CURRENT APPLICATION NUMBER: US/09/215,681A  
; CURRENT FILING DATE: 1998-12-17  
; NUMBER OF SEQ ID NOS: 310  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 107  
; LENGTH: 555  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-215-681-107

Alignment Scores:  
Pred. No.: 0.663 Length: 555  
Score: 72.00 Matches: 31  
Percent Similarity: 39.81% Conservative: 10  
Best Local Similarity: 30.10% Mismatches: 32  
Query Match: 16.18% Indels: 31  
Gaps: 5  
DB:

US-08-978-217-7 (1-84) x US-09-215-681-107 (1-555)

QY 6 GluleuArgLeuValPhe-----GlyProLeuGlyAspGlnLeuHisAlaGlnLeu 22  
|||  
|||



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 ; Search time 14.4951 Seconds  
(without alignments)  
7673.534 Million cell updates/sec

Title: US-08-978-217-6

Perfect score: 252

Sequence: 1 AATTGTGCGCTTGGAGAGCT.....CCGCGAGCTGTGGCGCAG3A 252

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:\*

1: /cgn2\_6/prodata/1/ina/5A COMB.seq:\*

2: /cgn2\_6/prodata/1/ina/5B COMB.seq:\*

3: /cgn2\_6/prodata/1/ina/6A COMB.seq:\*

4: /cgn2\_6/prodata/1/ina/6B COMB.seq:\*

5: /cgn2\_6/prodata/1/ina/PCBUS COMB.seq:\*

6: /cgn2\_6/prodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	252	100.0	1907	4	US-09-300-958A-27
2	252	100.0	1907	4	US-09-570-593-4
3	252	100.0	1920	1	US-08-746-789A-1
4	39	15.5	276	4	US-09-313-294A-3437
5	38.8	15.4	5173	1	US-08-242-677-1
6	36.2	14.4	741	4	US-09-252-991A-12066
7	36.2	14.4	918	4	US-09-252-991A-12009
8	36.2	14.4	1650	4	US-09-252-991A-8097
9	36.2	14.4	2145	4	US-09-252-991A-8205
10	35	13.9	1975	2	US-08-852-743-1
11	35	13.9	1975	3	US-09-185-370-1
12	35	13.9	2161	2	US-08-712-709-4
13	35	13.9	2161	3	US-09-111-444-4
14	35	13.9	2161	3	US-09-541-228-4
15	34.8	13.8	621	4	US-09-252-991A-8781
16	34.8	13.8	821	4	US-09-252-991A-8092
17	34.8	13.8	1512	4	US-09-252-991A-9180
18	34.8	13.8	1533	4	US-09-252-991A-9180
19	34.8	13.8	1758	4	US-09-252-991A-8895
20	34.6	13.7	6972	4	US-09-595-684B-38
21	34.6	13.7	8309	4	US-09-620-312D-1083
22	34	13.5	3141	2	US-08-956-242-1
23	34	13.5	3141	3	US-09-351-215-1
24	33.6	13.4	2128	4	US-09-620-312D-197
25	33.6	13.3	618	4	US-09-252-991A-7654
26	33.6	13.3	744	4	US-09-252-991A-7749
27	33.6	13.3	798	4	US-09-252-991A-7739

28	33.2	13.2	921	4	US-09-252-991A-1415	Sequence 1415, Ap
29	33.2	13.2	1206	4	US-09-252-991A-16406	Sequence 16406, A
30	33.2	13.2	1983	4	US-09-252-991A-16300	Sequence 16300, A
31	33	13.1	1107	4	US-09-252-991A-3936	Sequence 3936, Ap
32	33	13.1	1134	4	US-09-252-991A-3908	Sequence 3908, Ap
33	33	13.1	1217	4	US-09-594-669-11	Sequence 11, Appl
34	33	13.1	1304	4	US-09-594-669-9	Sequence 9, Appl
35	33	13.1	1326	4	US-09-252-991A-4002	Sequence 4002, Ap
36	33	13.1	1420	4	US-09-594-669-7	Sequence 7, Appl
37	32.8	13.0	1317	4	US-09-160-036-2	Sequence 2, Appl
38	32.8	13.0	1335	4	US-09-252-991A-15421	Sequence 15421, A
39	32.8	13.0	1392	4	US-09-160-036-11	Sequence 11, Appl
40	32.8	13.0	1645	4	US-09-620-312D-807	Sequence 807, App
41	32.8	13.0	1875	4	US-09-252-991A-5054	Sequence 5054, Ap
42	32.8	13.0	1962	4	US-09-252-991A-5020	Sequence 5020, Ap
43	32.8	13.0	2295	4	US-09-252-991A-5162	Sequence 5162, Ap
44	32.8	13.0	2352	4	US-09-252-991A-15532	Sequence 15532, A
45	32.8	13.0	2916	4	US-09-252-991A-15259	Sequence 15259, A

#### ALIGNMENTS

##### RESULT 1

US-09-300-958A-27

; Sequence 27, Application US/09300958A

; Patent No. 6495319

; GENERAL INFORMATION:

; APPLICANT: McClelland, Michael

; APPLICANT: Welsh, John

; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of

; FILE REFERENCE: P-PH 3457

; CURRENT APPLICATION NUMBER: US/09/300,958A

; PRIOR FILING DATE: 1999-04-27

; PRIOR APPLICATION NUMBER: 60/083,331

; PRIOR FILING DATE: 1998-04-27

; PRIOR APPLICATION NUMBER: 60/098,070

; PRIOR FILING DATE: 1998-08-27

; PRIOR APPLICATION NUMBER: 60/118,624

; PRIOR FILING DATE: 1999-02-04

; NUMBER OF SEQ ID NOS: 85

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 27

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-300-958A-27

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Mismatches 0; Indels 0; Gaps 0;

Mismatches 252; Conservative 0; Indels 0; Gaps 0;

## OPERATING SYSTEM: WINDOWS FOR WORKGROUPS

SOFTWARE: MICROSOFT WORD

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/746,789A

FILING DATE: No. 5789200ember 15, 1996

CLASSIFICATION: 514

PRIOR APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: William T. Han

REGISTRATION NUMBER: 34,344

REFERENCE/DOCKET NUMBER: ATG 50024

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610 270 5219

TELEFAX: 610 270 4026

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1920

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

ANTI-SENSE: NO

US-08-746-789A-1

Query Match 100.0%; Score 252; DB 1; Length 1920;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCCCCCTTGAGGAGCTGCGTCTGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 60

Db 424 AATTGTGCCCCCTTGAGGAGCTGCGTCTGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 483

QY 61 CAGTGGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG 120

Db 484 CAGTGGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG 543

QY 121 GAGAAGATGCGATGCGCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACCAAGGCGCAGC 180

Db 544 GAGAAGATGCGATGCGCTTCCAGAGGCGCTAGACCCAGGCGCTTTGACCAAGGCGCAGC 603

QY 181 CCCTTTGCCAGGAGCTGCTGAGAGGCGCTTCCAGAGGCGCTTTGACCAAGGCGCAGC 240

Db 604 CCCTTTGCCAGGAGCTGCTGAGAGGCGCTTCCAGAGGCGCTTTGACCAAGGCGCAGC 663

QY 241 TGTGGCGCAGGA 252

Db 664 TGTGGCGCAGGA 675

## RESULT 4

US-09-313-294A-3437

Sequence 3437, Application US/09313294A

Patent No. 6476212

GENERAL INFORMATION:

APPLICANT: Lalgudi, Raghunath V.

APPLICANT: Ito, Laura Y.

APPLICANT: Sherman, Bradley K.

TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR

FILE REFERENCE: PL-0017 US

CURRENT APPLICATION NUMBER: US/09/313,294A

CURRENT FILING DATE: 1999-05-14

NUMBER OF SEQ ID NOS: 7600

SOFTWARE: PERL Program

SEQ ID NO 3437

LENGTH: 276

TYPE: DNA

ORGANISM: Zea mays

FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. 6476212 700611585H1

US-09-313-294A-3437

## RESULT 2

US-09-570-593-4

Sequence 4, Application US/09570593

Patent No. 6566063

GENERAL INFORMATION:

APPLICANT: Kaufmann, Joerg

APPLICANT: Xin, Hong

APPLICANT: Harrowe, Greg

TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN

TITLE OF INVENTION: CANCER

FILE REFERENCE: 2300-1556

CURRENT APPLICATION NUMBER: US/09/570,593

CURRENT FILING DATE: 2000-05-12

PRIOR APPLICATION NUMBER: 60/134,112

PRIOR FILING DATE: 1999-05-14

NUMBER OF SEQ ID NOS: 13

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 4

LENGTH: 1907

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (96)...(1211)

OTHER INFORMATION: Human epithelial-restricted with serine box (BSX)

OTHER INFORMATION: Protein.

US-09-570-593-4

Query Match 100.0%; Score 252; DB 4; Length 1907;

Best Local Similarity 100.0%; Pred. No. 5e-59;

Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCCCCCTTGAGGAGCTGCGTCTGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 60

Db 405 AATTGTGCCCCCTTGAGGAGCTGCGTCTGCTCTTTGGGCTCTGGGGGACCAATCCATGCC 464

QY 61 CAGTGGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG 120

Db 465 CAGTGGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG 524

QY 121 GAGAAGATGCGATGCGCTTCCAGAGGCGCTTCCAGAGGCGCTTTGACCAAGGCGCAGC 180

Db 525 GAGAAGATGCGATGCGCTTCCAGAGGCGCTTCCAGAGGCGCTTTGACCAAGGCGCAGC 584

QY 181 CCCTTTGCCAGGAGCTGCTGAGAGGCGCTTCCAGAGGCGCTTTGACCAAGGCGCAGC 240

Db 585 CCCTTTGCCAGGAGCTGCTGAGAGGCGCTTCCAGAGGCGCTTTGACCAAGGCGCAGC 644

QY 241 TGTGGCGCAGGA 252

Db 645 TGTGGCGCAGGA 656

## RESULT 3

US-08-746-789A-1

Sequence 1, Application US/08746789A

Patent No. 5789200

GENERAL INFORMATION:

APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck

TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELP3

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation

STREET: 709 Swedeland Road, P.O. Box 1539

CITY: King of Prussia

STATE: PA

COUNTRY: USA

ZIP: 19406-0939

COMPUTER READABLE FORM:

MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

COMPUTER: IBM 486



Query Match 15.5%; Score 39; DB 4; Length 276;  
Best Local Similarity 49.3%; Pred. No. 0.07;  
Matches 102; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 42 GGGGGACCACTCCATGCGCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAG 101  
DB 60 GTGGAGCCACTGCTGCGGAGTCTCTCCAGCGCTTCTCCATGTTCCCGATCCCGTTCCC 119  
QY 102 TTGGATCATTTGAGCTGCTGAGAGGATGGCATGCTTCCAGGAGGCTTAGACCCAGG 161  
DB 120 GCAGATCTGGAGTCTTCAAGAGCGGTGCGTCTTCTGAGCGCGGAGGTTGA 179  
QY 162 GCCCTTTGACGAGGCGCCCTTTGCCAGGAGTGTGAGACGCTGACGAGCCAG 221  
DB 180 CTTCTCTGCGGCGCGGCACTGGGACGAGCGGTGTCCCGGAGCGGCACTTTCAT 239  
QY 222 CCCTACCAACCCCGGCGAGTGTGGCG 248  
DB 240 CTTCACTGCTGCGCTTCTTGGCGC 266

## RESULT 5

US-08-242-677-1/c  
; Sequence 1, Application US/08242677  
; Patent No. 5677143  
; GENERAL INFORMATION:  
; APPLICANT: Gaynor, Richard B  
; APPLICANT: Wu, Foon W.  
; TITLE OF INVENTION: Cellular Nucleic Acid Binding Protein  
; TITLE OF INVENTION: and Uses thereof in regulating Gene Expression and in the  
; TITLE OF INVENTION: Treatment of AIDS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: TX  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/242,677  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mayfield, Denise L.  
; REGISTRATION NUMBER: 33,732  
; REFERENCE/DOCKET NUMBER: UTSD:401  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713-787-1400  
; TELEFAX: 713-789-2679  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5173 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..4863

## US-08-242-677-1

Query Match 15.4%; Score 38.8; DB 1; Length 5173;  
Best Local Similarity 50.5%; Pred. No. 0.16;  
Matches 94; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 48 CCACTCCATGCGCCAGTGGGAGGACCTCACTTCCAGTCTTCTGATGAGTCAAGTTGGAT 107

DB 193 CCACCTCGCGCGCGCTCCGGAGAGCGCGCTCGCCCCCGCTGCGCGCGGCTCTCTCT 134  
QY 108 CATTGAGCTCTGAGAGGATGGCATGGCTTCCAGAGGCGCCCTAGACCCAGGGCCCTT 167  
DB 133 CTTGAGCGGCTCAGAGGAGGAGCGGCGTCTCCAGCGCTCCGCGGATGCTTCCCTT 74  
QY 168 TGACCAAGGCGAGCCCTTTGCCCAGAGCTGTGAGACGCGTCAAGAACCCAGCCCTA 227  
DB 73 GGCACAGCGCGCCCAAGCAGGCGCGCGGGTCCCGGCTCTGCGAGAGCAGCGCTTCCGGA 14  
QY 228 CCACCC 233  
DB 13 GCACCC 8

## RESULT 6

US-09-252-991A-12066  
; Sequence 12066, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 12066  
; LENGTH: 741  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
; US-09-252-991A-12066

Query Match 14.4%; Score 36.2; DB 4; Length 741;  
Best Local Similarity 47.6%; Pred. No. 0.51;  
Matches 107; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 16 GAGTGGCTGTGCTTTTGGGCTCTGCGGAGCACTCCATGCCCGAGTGGAGACCTC 75  
DB 29 GAGCGTCTCTCGCGCGCGGCGCGCGCTGGAACCTGCGCTGTGTACCTG 88  
QY 76 ACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAGGATGGCATG 135  
DB 89 AACACAGTTCGATCAAGCGCATGATGACATCTCGACCTGTGAGAGGCGCCACG 148  
QY 136 GCCTTCCAGGAGCGCCCTAGACCCAGGCGCCCTTTGACAGGCGAGCCCTTTGCCCCAGG 195  
DB 149 GCGCGTCCCGGTCAGCTGCGTGGCACTAGACCGCGGCAACGAAACGGGTGCGCGAG 208  
QY 196 CTGTGAGACGCTGACGAGCGCCCTTACACCCCGGCGAGC 240  
DB 209 CTGCGCGAGGAGTTCCCGGAGGACTGCAGCTTCCCTCTTCCCATC 253

## RESULT 7

US-09-252-991A-12009  
; Sequence 12009, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 12009  
; LENGTH: 918  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-12009

Query Match 14.4%; Score 36.2; DB 4; Length 918;  
Best Local Similarity 47.6%; Pred. No. 0.53;  
Matches 107; Conservative 0; Mismatches 118; Indels 0; Gaps 0;  
QY 16 GAGCTGCGTCTGCTCTTGGCCCTCTGGGGACCACTCCATGCCAGCTGCGAGACCTC 75  
DB |||||  
QY 676 GAGCGCTCTCTCGCCGCGCGGACGCGCGCTGGAATGACCTGCGCCCTGCTGTACCTG 735  
DB |||||  
QY 76 ACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTCAGCTGCTGGAGAGGATGGCATG 135  
DB |||||  
QY 736 AACACCACTTCATCAAGCCCATGATGACATCTCTGACTGCTCGAGAGGCCACACAG 795  
DB |||||  
QY 136 GCCTTCAGAGAGGCCCTAGACCCAGGCGCTTTGACAGGCGAGCCCTTTGCCCCAGGAG 195  
DB |||||  
QY 796 GCGCGTGGCGGCTGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 855  
DB |||||  
QY 196 CTGCTGACAGCGCTGACGAGCGAGCGCCCTTACACCCCGGCGAGC 240  
DB |||||  
QY 856 CTGCGCGAGGAGTTCCGCGAGGACTGCAGCTTCCCTTCCGCTATC 900  
DB |||||

## RESULT 8

US-09-252-991A-8097/c  
; Sequence 8097, Application US/09252991A  
; Patent No. 6551795

## GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252.991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 8097

LENGTH: 1650

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-8097

Query Match 14.4%; Score 36.2; DB 4; Length 1650;  
Best Local Similarity 47.9%; Pred. No. 0.62;  
Matches 104; Conservative 0; Mismatches 113; Indels 0; Gaps 0;  
QY 7 GCCCTTGAGAGCGCTCTGGCTCTTGGCCCTCTGGGGACCACTCCATGCCAGCTG 66  
DB |||||  
QY 657 GGCATGTAGCGCGCGCTGACGCGCGGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTG 598  
DB |||||  
QY 67 CGAGACTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAG 126  
DB |||||  
QY 597 CCAGCCCTGGCGCGCGCTCAACGCGGATCTCGGCGGCGGCGGCGGCGGCGGCGGAA 538  
DB |||||  
QY 127 GATGGCATGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACAGGCGGCGGCGGCGG 186  
DB |||||  
QY 537 GCGCAGGTGGTGTGCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 478  
DB |||||  
QY 187 GCCCAGAGCTGCTGGAGAGGCTGACAGCGGCTCAGCAGCGAGCC 223  
DB |||||  
QY 477 CTCGTAGAGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 441  
DB |||||

## RESULT 9

US-09-252-991A-8205

; Sequence 8205, Application US/09252991A  
; Patent No. 6551795

## GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252.991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 8205

LENGTH: 2145

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-8205

Query Match 14.4%; Score 36.2; DB 4; Length 2145;  
Best Local Similarity 47.9%; Pred. No. 0.66;  
Matches 104; Conservative 0; Mismatches 113; Indels 0; Gaps 0;  
QY 7 GCCCTTGAGAGCGCTCTGGCTCTTGGCCCTCTGGGGACCACTCCATGCCAGCTG 66  
DB |||||  
QY 1516 GGCATGTAGCGCGCGCTGACGCGCGGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTG 1575  
DB |||||  
QY 67 CGAGACTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAG 126  
DB |||||  
QY 1576 CCAGCCCTGGCGCGCGGCTGACCGCGGATCTCGCGCGGCGGCGGCGGCGGCGGCGGAA 1635  
DB |||||  
QY 127 GATGGCATGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACAGGCGGCGGCGGCGG 186  
DB |||||  
QY 1636 GCGCAGGTGGTGTGCGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1695  
DB |||||  
QY 187 GCCCAGAGCTGCTGGAGAGGCTGACAGCGGCTCAGCAGCGAGCC 223  
DB |||||  
QY 1696 CTCGTAGAGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1732  
DB |||||

## RESULT 10

US-08-852-743-1

; Sequence 1, Application US/08852743  
; Patent No. 5830699

## GENERAL INFORMATION:

; APPLICANT: Force, Thomas  
; APPLICANT: Kyriakis, John M.  
; APPLICANT: Pombo, Celia M.  
; APPLICANT: Bonventre, Joseph

; TITLE OF INVENTION: SOK-1 AND METHODS OF USE

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson, P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: US

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: Windows95

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/852,743

; FILING DATE: 7-MAY-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/016,774

; FILING DATE: 7-MAY-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 00786/327001  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1975 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: Coding Sequence  
LOCATION: 127...1404  
US-08-952-743-1

Query Match 13.9%; Score 35; DB 2; Length 1975;  
Best Local Similarity 48.3%; Pred. No. 1.4;  
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCACTCCATGCCAGCTCGGAGACCTCACTTCAGAGCTCTTCTGATGAGCTCAGTTGG 105  
DB 175 GAGGAGCTCTTACCAAGCTCGACCGCATTTGGCAAGGCTCGTTTGGGAGGCTCTACAAG 234  
QY 106 ATCATTCAGCTGTGGAGAGGATGGCATGCGCTTCCAGAGGCGCTAGACCCAGGCGCC 165  
DB 235 GGCATCGATAACACACAAAGAGGAGTGGTGGCCATCAAGATCATCGACCTGGAGGAGCC 294  
QY 166 TTGACACAGGCGAGCCCTTTGCCAGAGCTGCTGGACAGCGTTCAGCAAGCCAGCCGCC 225  
DB 295 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCACTGTCGAGCAGCCGCC 354  
QY 226 TACCACCCCGCAGCTGTGGCGC 248  
DB 355 TACATCACCCGCTACTTTGGCTC 377

RESULT 11  
US-08-952-743-1  
Sequence 1, Application US/09185370  
Patent No. 6093560  
GENERAL INFORMATION:  
APPLICANT: Force, Thomas  
APPLICANT: Kyriakis, John M.  
APPLICANT: Pombo, Celia M.  
APPLICANT: Bonventre, Joseph  
TITLE OF INVENTION: SOK-1 AND METHODS OF USE  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09185,370  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/952,743  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 00786/327001

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1975 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: Coding Sequence  
LOCATION: 127...1404  
US-09-185-370-1

Query Match 13.9%; Score 35; DB 3; Length 1975;  
Best Local Similarity 48.3%; Pred. No. 1.4;  
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCACTCCATGCCAGCTCGGAGACCTCACTTCAGAGCTCTTCTGATGAGCTCAGTTGG 105  
DB 175 GAGGAGCTCTTACCAAGCTCGACCGCATTTGGCAAGGCTCGTTTGGGAGGCTCTACAAG 234  
QY 106 ATCATTCAGCTGTGGAGAGGATGGCATGCGCTTCCAGAGGCGCTAGACCCAGGCGCC 165  
DB 235 GGCATCGATAACACACAAAGAGGAGTGGTGGCCATCAAGATCATCGACCTGGAGGAGCC 294  
QY 166 TTGACACAGGCGAGCCCTTTGCCAGAGCTGCTGGACAGCGTTCAGCAAGCCAGCCGCC 225  
DB 295 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCACTGTCGAGCAGCCGCC 354  
QY 226 TACCACCCCGCAGCTGTGGCGC 248  
DB 355 TACATCACCCGCTACTTTGGCTC 377

RESULT 12  
US-08-712-709-4  
Sequence 4, Application US/08712709  
Patent No. 5863780  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/712,709  
FILING DATE: Filed Herewith  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PE-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2161 base pairs  
TYPE: nucleic acid

STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-08-712-709-4

Query Match 13.9%; Score 35; DB 2; Length 2161;  
Best Local Similarity 48.3%; Pred. No. 1.4;  
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCAATCCATGCCAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGG 105  
Db 286 GAGGAGCTCTTCCACCAAGCTCGACCGCAITGGCAAGGGCTCGTTGGGAGGCTTCAAG 345  
QY 106 ATCATTCAGCTGCTGGAGAGGATGGCATGGCTTCCAGAGGCCCTAGACCCAGGGCCC 165  
Db 346 GGCATCATACCAACACAAAGAGGTGGTGGCCATCAAGATCATCGACCTGGAGAGGCC 405  
QY 166 TTTGACACAGGCGCCCTTTGCCAGAGCTGCTGGACGACCGTTCAGCAAGCCAGGCC 225  
Db 406 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTCAGTCAGGCC 465  
QY 226 TACCACCCCGCAGCTGTGGGC 248  
Db 466 TACATCACCCGCTACTTTGGCTC 488

## RESULT 14

US-09-541-228-4  
; Sequence 4, Application US/09541228  
; Patent No. 6232077  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Hawkins, Phillip R.  
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: U.S.  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/541,228  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/712,709  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0118 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2161 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; IMMEDIATE SOURCE:  
; LIBRARY:  
; CLONE: Consensus  
US-09-541-228-4

Query Match 13.9%; Score 35; DB 3; Length 2161;  
Best Local Similarity 48.3%; Pred. No. 1.4;

STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-08-712-709-4

Query Match 13.9%; Score 35; DB 2; Length 2161;  
Best Local Similarity 48.3%; Pred. No. 1.4;  
Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;

QY 46 GACCAATCCATGCCAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGG 105  
Db 286 GAGGAGCTCTTCCACCAAGCTCGACCGCAITGGCAAGGGCTCGTTGGGAGGCTTCAAG 345  
QY 106 ATCATTCAGCTGCTGGAGAGGATGGCATGGCTTCCAGAGGCCCTAGACCCAGGGCCC 165  
Db 346 GGCATCATACCAACACAAAGAGGTGGTGGCCATCAAGATCATCGACCTGGAGAGGCC 405  
QY 166 TTTGACACAGGCGCCCTTTGCCAGAGCTGCTGGACGACCGTTCAGCAAGCCAGGCC 225  
Db 406 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTCAGTCAGGCC 465  
QY 226 TACCACCCCGCAGCTGTGGGC 248  
Db 466 TACATCACCCGCTACTTTGGCTC 488

## RESULT 13

US-09-111-444-4  
; Sequence 4, Application US/09111444  
; Patent No. 6045792  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Hawkins, Phillip R.  
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: U.S.  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/111,444  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/712,709  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0118 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2161 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; IMMEDIATE SOURCE:  
; LIBRARY:

Fri Feb 13 11:58:22 2004

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Matches 98; Conservative 0; Mismatches 105; Indels 0; Gaps 0;
QY 46 GACCACTCCATGCCAGCTGGAGACCTCACTCCAGCTCTTCTGATGAGCTCAGTTGG 105
DB 286 GAGGAGCTCTTACCAAGCTGACCGCATGGCAAGGCTCGTTTGGGAGGTCTACAAG 345
QY 106 ATCATTTGAGCTGCTCGAGAAGGATGGCATGGCTTCCAGGAGGCGCTTAGACCCAGGGCCC 165
DB 346 GGCATCGATACCAACACAAAGAGGTGGTGGCCATCAAGATCATCGACCTGGAGAGGCC 405
QY 166 TTTGACAGGGGAGGCCCTTTGCCAGGAGCTGTGGAGCAGCGTCAAGCAGCCAGGCC 225
DB 406 GAGGATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTGGCAGGCC 465
QY 226 TACCACCGCGCAGCTGTGGCGC 248
DB 466 TACATCACCGCTACTTTGGCTC 488
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## RESULT 15

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US-09-252-991A-8781/c
; Sequence 8781, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 8781
; LENGTH: 621
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-8781
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Query Match 13.8%; Score 34.8; DB 4; Length 621;
Best Local Similarity 54.8%; Pred. No. 1.2;
Matches 69; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
QY 105 GATCATTTGAGCTGCTCGAGAAGGATGGCATGGCTTCCAGGAGGCGCTTAGACCCAGGGCC 164
DB 576 GACCGCTGACCCGCTCGGCGAGGCGCGCCGACGCGCTCCAGGTCGTGCTCGATCCAGAGCA 517
QY 165 CTTTGACAGGGGAGGCCCTTTGCCAGGAGCTGTGGAGCAGCGTCAAGCAGCCAGGCC 224
DB 516 CGGTGAGCGCGCGCTGGCGCCAGTCCAGCAGCAGCGCTCGAAGACCTGGTCCGCGCT 457
QY 225 CTACCA 230
DB 456 CGTCGA 451
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GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 12, 2004, 19:34:21 ; Search time 93.522 Seconds  
(without alignments)  
1750.959 Million cell updates/sec

Title: US-08-978-217-2  
Perfect score: 1980  
Sequence: 1 MATATCISNIFSYFAMYS.....YKFGKNSGWKEEVLQSRN 371

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Zgapop 6.0, Zgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 569978 seqs, 220691566 residues  
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Listing first 45 summaries

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-NO MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA.\*  
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6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1980	100.0	1907	4	US-09-300-958A-27
2	1980	100.0	1907	4	US-09-570-593-4
3	1980	100.0	1920	1	US-08-746-789A-1
4	903	45.6	502	4	US-09-389-681-282
5	903	45.6	502	4	US-09-620-405B-282
6	903	45.6	502	4	US-09-339-338-282
7	903	45.6	502	4	US-09-433-826B-282
8	903	45.6	502	4	US-09-604-287A-282
9	559	28.2	5427	3	US-09-009-913-2
10	555.5	28.1	5510	3	US-09-009-913-3
11	555.5	28.1	5667	3	US-09-009-913-4
12	519.5	26.2	852	3	US-09-020-956-44

c 13	519.5	26.2	852	3	US-09-030-607-44	Sequence 44, Appl
c 14	519.5	26.2	852	4	US-09-439-313-44	Sequence 44, Appl
c 15	519.5	26.2	852	4	US-09-352-616A-44	Sequence 44, Appl
c 16	519.5	26.2	852	4	US-09-232-149A-44	Sequence 44, Appl
17	486.5	24.6	848	3	US-09-009-913-338	Sequence 338, App
18	422	21.3	2280	3	US-09-009-913-8	Sequence 8, Appl
19	422	21.3	2428	3	US-09-009-913-6	Sequence 6, Appl
20	422	21.3	2498	3	US-09-009-913-10	Sequence 10, Appl
21	281	14.2	237	1	US-09-016-434-927	Sequence 927, App
22	246.5	12.4	2975	1	US-08-368-281-1	Sequence 1, Appl
23	242	12.2	3240	1	US-08-368-281-3	Sequence 3, Appl
24	238.5	12.0	1894	4	US-09-570-593-1	Sequence 2, Appl
25	238.5	12.0	1905	3	US-09-055-113-2	Sequence 12, Appl
26	238.5	12.0	3317	4	US-09-570-593-12	Sequence 1, Appl
27	234.5	11.8	1752	3	US-09-360-779-1	Sequence 1, Appl
28	234.5	11.8	1752	4	US-09-435-335-1	Sequence 1, Appl
29	233	11.8	2268	3	US-09-344-579-1	Sequence 1, Appl
30	228	11.5	1604	1	US-08-306-691B-43	Sequence 43, Appl
31	228	11.5	1604	5	PCT-US93-08251-9	Sequence 9, Appl
32	214.5	10.8	1933	4	US-09-920-759-3	Sequence 3, Appl
33	214.5	10.8	1976	4	US-09-920-759-10	Sequence 10, Appl
34	213.5	10.8	1528	3	US-08-878-177-3	Sequence 3, Appl
35	212	10.7	2938	2	US-08-343-443B-3	Sequence 3, Appl
36	207	10.5	1447	3	US-08-878-177-1	Sequence 1, Appl
37	203.5	10.3	2265	2	US-09-213-767-1	Sequence 1, Appl
38	197	9.9	665	4	US-09-920-759-11	Sequence 11, Appl
39	190	9.6	2410	2	US-08-780-835B-1	Sequence 1, Appl
40	190	9.6	2410	3	US-09-303-268-1	Sequence 1, Appl
41	190	9.6	2410	3	US-09-116-049-1	Sequence 1, Appl
42	190	9.6	2410	4	US-09-884-363-1	Sequence 1, Appl
43	189	9.5	2667	2	US-08-469-412A-1	Sequence 1, Appl
44	189	9.5	2667	3	US-09-021-715-1	Sequence 1, Appl
45	185.5	9.4	2064	3	US-08-875-944B-1	Sequence 1, Appl

## ALIGNMENTS

RESULT 1  
US-09-300-958A-27  
; Sequence 27, Application US/09300958A  
; Patent No. 6495319  
; GENERAL INFORMATION:  
; APPLICANT: McCelland, Michael  
; APPLICANT: Welsh, John  
; APPLICANT: Trenkle, Thomas  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; FILE REFERENCE: P-PH 3457  
; TITLE OF INVENTION: Using Same  
; CURRENT FILING DATE: 1999-04-27  
; CURRENT APPLICATION NUMBER: US/09/300,958A  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/083,331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098,070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118,624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-300-958A-27

Alignment Scores:  
Pred. No.: 1.68e-185  
Score: 1980.00  
Conservative: 0  
Best Local Similarity: 100.00%  
Query Match: 100.00%  
DB: 4  
Length: 1907  
Matches: 371  
Mismatch: 0  
Indels: 0  
Gaps: 0

US-08-978-217-2 (1-371) x US-09-300-958A-27 (1-1907)

Qy 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371  
Db 1176 TGAAGAGGAGGAAGAGGTTCTCCAGAGTGGGAAC 1208

RESULT 2

US-09-570-593-4  
; Sequence 4, Application US/09570593  
; Patent No. 6586063  
; GENERAL INFORMATION:  
; APPLICANT: Kaufmann, Joerg  
; APPLICANT: Xin, Hong  
; APPLICANT: Harrowe, Greg  
; TITLE OF INVENTION: EXPRESSION OF ETS-DOMAIN PROTEINS IN  
; TITLE OF INVENTION: CANCER  
; FILE REFERENCE: 2300-1556  
; CURRENT APPLICATION NUMBER: US/09/570,593  
; CURRENT FILING DATE: 2000-05-12  
; PRIOR APPLICATION NUMBER: 60/134,112  
; PRIOR FILING DATE: 1999-05-14  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (96)...(1211)  
; OTHER INFORMATION: Human epithelial-restricted with serine box (ESX)  
; OTHER INFORMATION: protein.  
US-09-570-593-4

Alignment Scores:  
Pred. No.: 1,68e-185 Length: 1907  
Score: 1980.00 Matches: 371  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: Gaps: 0

US-08-978-217-2 (1-371) x US-09-570-593-4 (1-1907)

Qy 1 MetAlaIaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20  
Db 96 ATGGCTGCAACCTGTGAGATTAGCAACATTTTATGCAACTACTTCAGTGGCATGTACAGC 155  
Qy 21 SerGluAspSerThrLeuAlaSerValProProAlaIaThrPheGlyAlaAspAspLeu 40  
Db 156 TGGAGAGACTCCACCCTCGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTGTG 215  
Qy 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60  
Db 216 GTACTGACCTCAGCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTG 275  
Qy 61 GlyGluGlnProGlnPheTrpSerIysThrGlnValLeuAspTrpIleSerTyrGlnVal 80  
Db 276 GGGGAACAGCCCCCATTTCTGTGTGAAGACGAGGTCTTGACTGGATCAGCTACCAAGTG 335  
Qy 81 GluLysAsnLysTyAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
Db 336 GAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCAGATGTGACATGGATGGGCC 395  
Qy 101 ThrLeuCysAsnCysAlaLeuGluGlnLeuArgLeuValPheGlyProLeuGlyAspGln 120  
Db 396 ACCCTCTGCAATGTGGCCCTTGAGGAGCTGGGTCTGTCTTCTGGGCCCTCTGGGGGACCAA 455  
Qy 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140  
Db 456 CTCCTATGCCACCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAT 515  
Qy 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnAlaLeuAspProGlyProPheAsp 160  
Db 516 GAGCTCTCGAAGAGATGGATGGCTTTCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 575

161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180  
 576 CAGGGAGAGCCCTTCCCGAGGAGCTGCTGGACGAGGTGACAGCCAGCCCTTACCAC 635  
 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGly 200  
 636 CCGGAGCTGTGGCGCAGGAGCCCTTCCCTGGAGCTCTGACGCTCCACCCGAGGG 695  
 201 ThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220  
 696 ACTGCTGCTTCCGAGCTCCCACTCTCAGACTCCGCTGGAGTGCAGCTGACCTGGAT 755  
 221 ProThrAspGlyLeuPheProSerAspGlyPheArgAspCysGlySerGlyValAspPro 240  
 756 CCACCTGATGGCAAGCTTCTCCCGAGGTGTTTCGTGCTGCAAGAGGGGATCCC 815  
 241 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGlyTyrTrpAspCys 260  
 816 AAGCAGGGGAAGCGGAACAGGCGCCCGGAAAGCTGAGCAAGAGTACTGGAGCTGT 875  
 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeArg 280  
 876 CTCGAGGGCAAGAGAGCAAGCAGCGCCCGCAGAGGCAACCTCTGGGAGTTCATCCGG 935  
 281 AspileLeuileHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300  
 936 GACATCTCATCCCGGAGCTCAACGAGGGCTCATGAAGTGGAGAGATCGCATGNA 995  
 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 320  
 996 GGGCTCTCAAGTCTCCGCTCCGAGGCTGTGGCCCACTATGGGGCCCAAGAAAAAG 1055  
 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 340  
 1056 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTTACAAACGGAG 1115  
 341 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 360  
 1116 ATCTGGACGGTGGATGGCGGGGCTGCTCTACAGTTTGGCAAACTCAAGCGGC 1175  
 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371  
 1176 TGGAGAGGAGAGGAGGTCTCCAGAGTCGGAC 1208

RESULT 3

US-08-746-789A-1  
 ; Sequence 1, Application US/08746789A  
 ; Patent No. 5789200  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ismail Kola, Martin J. Tyms, Christine DeBouck  
 ; TITLE OF INVENTION: A No. 5789200el Human ETS Family Member, ELP3  
 ; NUMBER OF SEQUENCES: 4  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SmithKline Beecham Corporation  
 ; STREET: 709 Swedeland Road, P.O. Box 1539  
 ; CITY: King of Prussia  
 ; STATE: PA  
 ; COUNTRY: USA  
 ; ZIP: 19406-0939  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
 ; COMPUTER: IBM 486  
 ; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS  
 ; SOFTWARE: MICROSOFT WORD  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/746, 789A  
 ; FILING DATE: No. 5789200el 15, 1996  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

NAME: William T. Han  
 REGISTRATION NUMBER: 34,344  
 REFERENCE/DOCKET NUMBER: ATG 50024  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 610 270 5219  
 TELEFAX: 610 270 4026  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:

LENGTH: 1920  
 TYPE: Nucleic Acid  
 STRANDEDNESS: Single  
 TOPOLOGY: Linear  
 ANTI-SENSE: NO

US-08-746-789A-1

Alignment Scores:

Pred. No.: 1.69e-185 Length: 1920  
 Score: 1980.00 Matches: 371  
 Percent Similarity: 100.00% Conservations: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 1 Gaps: 0

US-08-978-217-2 (1-371) x US-08-746-789A-1 (1-1920)

QY 1 MetAlaAlaThrCysGluIleSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20  
 DB 115 ATGCTCACAACCTGTGAGATTAGCAGATTTTATAGCACTACTTTCAGTGGATGTACAGC 174  
 QY 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspAspLeu 40  
 DB 175 TCGAGGAGCTCCACTTGGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG 234  
 QY 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60  
 DB 235 GTACTGACCTGACACACCCCAAGATGTCATTGAGGGTACAGAGAGGTAGTGTGTTG 294  
 QY 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysSerTyrGlnVal 80  
 DB 295 GGGCAACAGCCCCAGTTCTGTGTCGAGACGACAGGTTCTGGACTGGATCAGTACCAAGTG 354  
 QY 81 GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 DB 355 GAGAGAACCAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 414  
 QY 101 ThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGln 120  
 DB 415 ACCCTCTGCAATTGTGCTTGTGAGGAGTGGCTGTGGTCTTTGGGCTCTGGGGGACCAA 474  
 QY 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerSerSerTrpIle 140  
 DB 475 CTCCATGCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATT 534  
 QY 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAsp 160  
 DB 535 GAGCTGTGGAGAGGATGCGCTTCCAGAGGCCCCCTAGAGGCCCCCTTGGAC 594  
 QY 161 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHis 180  
 DB 595 CAGGGCAGCCCCCTTGGCAGGAGCTGCTGACGACGGTCCAGCAAGCAGCCCCCTACCAC 654  
 QY 181 ProGlySerCysGlyAlaGlyAlaProSerProGlySerSerSerSerSerSerSerTrpAlaGly 200  
 DB 655 CCGGAGCTGTGGCGCAGGAGCCCCCTCCCTGGAGCTCTCAGCTCTCCAGCTCCACCGCAGGG 714  
 QY 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220  
 DB 715 ACTGCTGCTTCTCGAGCTCCCACTCTCTCAGACTCCGGTGGAGAGTGCAGTGGACCTGGAT 774  
 QY 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240  
 DB 775 CCACCTGATGCAAGCTCTTCCCGCAGGATGGTTCCTGCTGACTCCCAAGAGGGGGATCCC 834



QY 241 LysHisGlyLysArgLysArgLysArgLysLeuSerLysGluTyrTrpAspCys 260  
DB 835 AAGCACGGGAAGCGAAACGAGGCGCGCCGCGAAAGCTGACAAAGAGTACTGGGACTGT 894  
QY 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 280  
DB 895 CTCGAGGCAAGAGAGCAAGCAGCGCCGAGAGGACCCACCTGTGGGAGTTTCATCCCG 954  
QY 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300  
DB 955 GACATCTCATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGCATGAA 1014  
QY 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 320  
DB 1015 GGCCTCTTCAAGTTCCTCGCGCTCCGAGGCTGTGGCCCACTATGGGGGCAAAAGAAAG 1074  
QY 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 340  
DB 1075 AACAGCAACATGACCTACGAGAGCTGACCGGGCCATGAGTACTACTACAAACGGGAG 1134  
QY 341 IleLeuGluArgValAspGlyArgLysLeuValTyrLysPheGlyLysAsnSerSerGly 360  
DB 1135 ATCTTGAACGGTGGATGGCGCGGACTCGTCTACAAAGTTTGGCAAAACTCAAGCGGC 1194  
QY 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371  
DB 1195 TGGAGAGGAGAGAGAGTCTCCAGAGTCGGAAC 1227

## RESULT 4

US-09-389-681-282  
; Sequence 282, Application US/09389681A  
; Patent No. 6518237  
; GENERAL INFORMATION:  
; APPLICANT: Yuqi, Jiang  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
; FILE REFERENCE: 210121.470C3  
; CURRENT APPLICATION NUMBER: US/09/389,681A  
; CURRENT FILING DATE: 1999-09-02  
; NUMBER OF SEQ ID NOS: 463  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-389-681-282

Alignment Scores:  
Pred. No.: 3,01e-80 Length: 502  
Score: 903.00 Matches: 166  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 45.61% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-2 (1-371) x US-09-389-681-282 (1-502)

QY 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203  
DB 3 TGTGGCGAGAGGAGGCGCCCTCCCGGAGCTCTGACCTCTCCACCGGAGGACTGGTGCT 62  
QY 204 SerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223  
DB 63 TCTCGAGCTCCCACTCTCAGACTCCGGTGGAGTACGTGACCTCCACCGGAGGACTGGTGCT 122  
QY 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspProLysHisGly 243  
DB 123 GGCAGGCTCTTCCCGAGCGATGGTTTCGTGACTGCAAGAGGGGGATCCCAAGCACGGG 182  
QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGly 263

DB 183 AAGCGAAACGAGGCGCGCCCGCGAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGC 242  
QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspIleLeu 283  
DB 243 AAGAAGCAAGCAGCGCCGAGAGGACCCACCTGTGGGAGTTTCATCCGGGACATCTCTC 302  
QY 284 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 303  
DB 303 ATCCACCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGCATGAAGGGCTCTTC 362  
QY 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323  
DB 363 AAGTTCCTGCGCTCCGAGGCTGTGGCCCACTATGGGGCCAAAGAAAGAAAGCAGCAAC 422  
QY 324 MetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLysLeuGlu 343  
DB 423 ATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAGATCTCGAA 482  
QY 344 ArgValAspGlyArgArg 349  
DB 483 CGGTGGATGGCGCGCA 500

## RESULT 5

US-09-620-405B-282  
; Sequence 282, Application US/09620405B  
; Patent No. 6528054  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqi  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.470C8  
; CURRENT APPLICATION NUMBER: US/09/620,405B  
; CURRENT FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 495  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 282  
; LENGTH: 502  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-620-405B-282

Alignment Scores:  
Pred. No.: 3,01e-80 Length: 502  
Score: 903.00 Matches: 166  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 45.61% Indels: 0  
DB: 4 Gaps: 0

US-08-978-217-2 (1-371) x US-09-620-405B-282 (1-502)

QY 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203  
DB 3 TGTGGCGAGAGGAGGCGCCCTCCCGGAGCTCTGACCTCTCCACCGGAGGACTGGTGCT 62  
QY 204 SerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223  
DB 63 TCTCGAGCTCCCACTCTCAGACTCCGGTGGAGTACGTGACCTCCACCGGAGGACTGGTGCT 122  
QY 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspProLysHisGly 243  
DB 123 GGCAGGCTCTTCCCGAGCGATGGTTTCGTGACTGCAAGAGGGGGATCCCAAGCACGGG 182  
QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCysLeuGluGly 263  
DB 183 AAGCGAAACGAGGCGCGCCCGCGAAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGC 242

QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIleArgAspIleLeu 283  
 Db 243 AAGAAGACAGCAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGGACATCTTC 302  
 QY 284 IleHisProGluLeuAsnGluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPhe 303  
 Db 303 ATCCACCCGGAGCTCAACAGAGGCTCATGAAGTGGGAGATCGGCATGAAGGGCTCTTC 362  
 QY 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTyrGlyGlnLysLysLysSerAsn 323  
 Db 363 AAGTTCTCGCTCCGAGGCTGTGGCCCACTATGGGCCCAAGAAAAGAACAGCAAC 422  
 QY 324 MetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLeuGlu 343  
 Db 423 ATGACCTACGAGAAGCTGAGCGGCCCATGAGGTACTACTACAAACGGGAGATCTCTGGAA 482  
 QY 344 ArgValAspGlyArgArg 349  
 Db 483 CGGGTGGATGGCGCGCA 500

RESULT 6

US-09-339-338-282  
 ; Sequence 282, Application US/09339338A  
 ; Patent No. 6573368  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yugu, Jiang  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.470C2  
 ; CURRENT APPLICATION NUMBER: US/09/339,338A  
 ; CURRENT FILING DATE: 1999-06-23  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-339-338-282

Alignment Scores:  
 Pred. No.: 3,01e-80 Length: 502  
 Score: 903.00 Matches: 166  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 45.61% Indels: 0  
 DB: Gaps: 0

US-08-978-217-2 (1-371) x US-09-339-338-282 (1-502)

QY 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203  
 Db 3 TGTGGCGAGAGGACCCCTCCCGGACCTCTGACGCTCCACCGAGGAGTGGTCT 62  
 QY 204 SerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223  
 Db 63 TCTCGGAGCTCCACCTCTCAGACTCCGTTGGAAGTACGTGGACCTGGATCCCACTGAT 122  
 QY 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspProLysHisGly 243  
 Db 123 GGAAGCTCTTCCCGAGCATGTTTCTGTTGACTGCAAGAGGGGATCCCAAGCAGCGG 182  
 QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTyrAspCysLeuGluGly 263  
 Db 183 AAGCGAAGACGAGCGCCCGGAGAGCTGAGCAAGAGTACTGGAGTCTCGAGGCG 242  
 QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIleArgAspIleLeu 283  
 Db 243 AAGAAGACAGCAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGGACATCTTC 302  
 QY 284 LysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIleArgAspIleLeu 283  
 Db 243 AAGAAGACAGCAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGGACATCTTC 302  
 QY 284 IleHisProGluLeuAsnGluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPhe 303

Db 303 ATCCACCCGGAGCTCAACAGAGGCTCATGAAGTGGGAGATCGGCATCAAGGCGTCTTC 362  
 QY 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTyrGlyGlnLysLysLysSerAsn 323  
 Db 363 AAGTTCTCGCTCCGAGGCTGTGGCCCACTATGGGCCCAAGAAAAGAACAGCAAC 422  
 QY 324 MetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGluLeuGlu 343  
 Db 423 ATGACCTACGAGAAGCTGAGCGGCCCATGAGGTACTACTACAAACGGGAGATCTCTGGAA 482  
 QY 344 ArgValAspGlyArgArg 349  
 Db 483 CGGGTGGATGGCGCGCA 500

RESULT 7

US-09-433-826B-282  
 ; Sequence 282, Application US/09433826B  
 ; Patent No. 6579973  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jiang, Yuqui  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Harlocker, Susan L.  
 ; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.470C4  
 ; CURRENT APPLICATION NUMBER: US/09/433,826B  
 ; CURRENT FILING DATE: 1999-11-03  
 ; NUMBER OF SEQ ID NOS: 474  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-433-826B-282

Alignment Scores:  
 Pred. No.: 3,01e-80 Length: 502  
 Score: 903.00 Matches: 166  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 45.61% Indels: 0  
 DB: Gaps: 0

US-08-978-217-2 (1-371) x US-09-433-826B-282 (1-502)

QY 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203  
 Db 3 TGTGGCGAGAGGACCCCTCCCGGACCTCTGACGCTCCACCGAGGAGTGGTCT 62  
 QY 204 SerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223  
 Db 63 TCTCGGAGCTCCACCTCTCAGACTCCGTTGGAAGTACGTGGACCTGGATCCCACTGAT 122  
 QY 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspProLysHisGly 243  
 Db 123 GGAAGCTCTTCCCGAGCATGTTTCTGTTGACTGCAAGAGGGGATCCCAAGCAGCGG 182  
 QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTyrAspCysLeuGluGly 263  
 Db 183 AAGCGAAGACGAGCGCCCGGAGAGCTGAGCAAGAGTACTGGAGTCTCGAGGCG 242  
 QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIleArgAspIleLeu 283  
 Db 243 AAGAAGACAGCAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGGACATCTTC 302  
 QY 284 LysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheIleArgAspIleLeu 283  
 Db 243 AAGAAGACAGCAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCGGGACATCTTC 302  
 QY 284 IleHisProGluLeuAsnGluGlyLeuMetLysTyrGluAsnArgHisGluGlyValPhe 303  
 Db 303 ATCCACCCGGAGCTCAACAGAGGCTCATGAAGTGGGAGATCGGCATCAAGGCGTCTTC 362  
 QY 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTyrGlyGlnLysLysLysSerAsn 323

Db 363 AAGTTCTCGCTCCAGGCTGTGGCCCACTATGGGCCAAGAAAGAAAGCAAC 422  
 Qy 324 MetThrTyrluLysLeuSerArgAlaMetArgTyrluLysArgGluLeuLeuGlu 343  
 Db 423 ATGACCTACGAGAGCTGAGCGGCCCATGAGGTACTACTACAAACGGGAGATCTCTGGAA 482  
 Qy 344 ArgValAspGlyArgArg 349  
 Db 483 CGGGTGGATGGCCGGCGA 500

RESULT 8

US-09-604-287A-282  
 ; Sequence 282, Application US/09604287A  
 ; Patent No. 6586572  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jiang Yugu  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Hepler, William T.  
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
 ; FILE REFERENCE: 210121.470CT  
 ; CURRENT APPLICATION NUMBER: US/09/604,287A  
 ; CURRENT FILING DATE: 2000-06-22  
 ; NUMBER OF SEQ ID NOS: 489  
 ; SOFTWARE: Fast-Seq for Windows Version 3.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-604-287A-282

Alignment Scores:  
 Pred. No.: 3,01e-80 Length: 502  
 Score: 903.00 Matches: 166  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 45.61% Indels: 0  
 DB: 4 Gaps: 0

US-08-978-217-2 (1-371) x US-09-604-287A-282 (1-502)

Qy 184 CysGlyAlaGlyAlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAla 203  
 Db 3 TGTGGCGCAGAGAGCCCTCCCGGCGAGCTCTGACCTCTCCACCGAGGAGCTGTGCT 62  
 Qy 204 SerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAsp 223  
 Db 63 TCTCGGAGTCTCCACTCTCTCAGACTCCGTTGGAAGTGACCTGGACCTGGATCCCACTGAT 122  
 Qy 224 GlyLysLeuPheProSerAspGlyPheArgAspCysLysGlyAspProLysHisGly 243  
 Db 123 GCGAAGTCTTCTCCCGCGAGTGTGTTTCGTGACTGCAAGAGGGGGATCCCAAGCAGCGG 182  
 Qy 244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyTrpLysCysLeuGlyGly 263  
 Db 183 AAGCGGAACAGCGCGCCCGCCGAAAGCTGAGCAAGAGTACTCGGACTCTCTCGAGGCG 242  
 Qy 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeu 293  
 Db 243 AAGAGAGCAAGCAGCGCGCCCGCAGAGGACCCACCTGTGGAGTTTCATCCGCGGACATCCTC 302  
 Qy 284 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 303  
 Db 303 ATCCACCCGAGCTCAACAGAGGCTCATGAGTGGAGAGATCGCATGAGGCGTCTTC 362  
 Qy 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323  
 Db 363 AAGTTCTCGCTCCAGGCTGTGGCCCACTATGGGCCAAGAAAGAAAGCAAC 422

Qy 324 MetThrTyrluLysLeuSerArgAlaMetArgTyrluLysArgGluLeuLeuGlu 343  
 Db 423 ATGACCTACGAGAGCTGAGCGGCCCATGAGGTACTACTACAAACGGGAGATCTCTGGAA 482  
 Qy 344 ArgValAspGlyArgArg 349  
 Db 483 CGGGTGGATGGCCGGCGA 500

RESULT 9

US-09-009-913-2  
 ; Sequence 2, Application US/09009913  
 ; Patent No. 6087485  
 ; GENERAL INFORMATION:  
 ; APPLICANT: AXYS Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma Related Genes  
 ; NUMBER OF SEQUENCES: 339  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Bozicevic & Reed, LLP  
 ; STREET: 285 Hamilton Ave, Suite 200  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94301  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/009,913  
 ; FILING DATE: 21-JAN-1998  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Sherwood, Pamela J  
 ; REGISTRATION NUMBER: 36,677  
 ; REFERENCE/DOCKET NUMBER: SEQ-4P  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-327-3231  
 ; TELEFAX: 650-327-3231  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 5427 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; US-09-009-913-2

Alignment Scores:  
 Pred. No.: 8.19e-45 Length: 5427  
 Score: 559.00 Matches: 140  
 Percent Similarity: 47.42% Conservative: 44  
 Best Local Similarity: 36.08% Mismatches: 88  
 Query Match: 28.23% Indels: 116  
 DB: 3 Gaps: 12

US-08-978-217-2 (1-371) x US-09-009-913-2 (1-5427)

Qy 27 AlaSerValProProAlaAlaThr-----PheGlyAlaAspAspLeuValLeuThr 43  
 Db 84 GTGCTCTCCCTCCATCATGAGCCACAGCTATTGGATTCCCAAGATCTTTAGTA--- 140  
 Qy 44 LeuSerAsnProGlnMetSerLeuGluGly----- 53  
 Db 141 -----ATGAGATCATGATTCTGGAGGAGGTGTGTATGTAATCTCAACCCCGGCAAC 194  
 Qy 54 -----ThrGluLysAlaSer----- 58  
 Db 195 AACCTCTCTTCCAGCCCGCCAGCTGGGACAGACAGTACTCCACGTGCAATGTTTCCAGT 254

Qy 59 -----TrrLeuGluGlnProGlnPheTrpSerLysThrGlnVal 72  
 Db 255 GGGTTTTTGGAGGCGGAGTGGATGAAATTCCTCAGTACTGACCAAGTACCAGGTG 314  
 Qy 73 LeuAspTrpLysSerTyrrGlnValGluLysAsnLysTyrrAspAlaSerAlaIleAspPhe 92  
 Db 315 TGGAGTGGCTCAGCAGCTCTGAGACCAACAGTGGATGCAATGATTCCTTTTC 374  
 Qy 93 SerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeu 112  
 Db 375 CAAGAGTTCGACATCAACGCGCAGCAGCTCTGAGCAGTTCAGGAGTTCACCGG 434  
 Qy 113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr----- 129  
 Db 435 GCGGAGGAGCGGCGGCGGAGTCTCTACAGCAACTTCAGCAGTCTCAAGTGGAGCGC 494  
 Qy 130 SerSerSerSerAspGluLeuSerTrpIleIleGluLeuGluLysAspGlyMetAla 149  
 Db 495 CAGTGCAGTAGTGAC-----CTG 512  
 Qy 150 PheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeu 169  
 Db 513 TTTCCAGTCC-----ACACACAATGTC 533  
 Qy 170 LeuAspAspGlyGlnGlnAlaSerProTyrrHisProGlySerCysGlyAlaGlyAlaPro 189  
 Db 534 ATTGTCAAGACTGAACAACACTGAGCT-----TTGGACAGCAAACTTTC----- 560  
 Qy 190 SerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerHisSer 209  
 Db 561 -----TCCATCATGAACACCTCGAAGAGCAGCACTATTATAT 599  
 Qy 210 SerAspSerGlyCysSerAspValAspLeuAspProThrAspGlyLysLeuPheProSer 229  
 Db 600 GACACCACTATGTTAGCAGCAGTAGATTG-----TTGGACAGCAAACTTTC----- 647  
 Qy 230 AspGlyPheArgAspCysLysLys----- 237  
 Db 648 -----TGCGGGGCTCAGATCTCCATGACCAACCCAGTCCCTCTGTT 692  
 Qy 238 GlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyr 257  
 Db 693 GCAGATCACTGATATGAAAGGAGGAGCAAGACCCCTCGCAAGTGCACACCAAA--- 749  
 Qy 258 TrpAspCysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGlu 277  
 Db 750 -----NAGCAACCCGAGAGGAGTCACTATGGGA 782  
 Qy 278 PheIleArgAspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsn 297  
 Db 783 TTTATCCGCGACATCTCTTGAACCCAGCAAGACCCAGGATTAATAAATGGGAAGAC 842  
 Qy 298 ArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGln 317  
 Db 843 CGATCTGAGGGCTCTTCAAGTCTTGAATCAGAGCAGTGGCTCAGCTATGGGGTAAA 902  
 Qy 318 LysLysLysAsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArgTyrrTyrr 337  
 Db 903 AAGAAGAAACAACAGCAGCATGCTATGAAAGAGTCCAGCGAGTATGAGATATTACTAC 962  
 Qy 338 LysArgGluIleLeuGluArgValAspGlyArgGluValTyrrPheGlyLysAsn 357  
 Db 963 AAAAAGAAATACTGAGGCGTGGATGACCAAGACTGGTATATAAATTTGGGAAGAA 1022  
 Qy 358 SerSerGlyTrpLysGluGlu 365  
 Db 1023 GCGCGAGGATGGAGAGAAATGAA 1046

RESULT 10

US-09-009-913-3

; Sequence 3, Application US/09009913

; Patent No. 6087485

GENERAL INFORMATION:  
 APPLICANT: Axy Pharmaceuticals, Inc.  
 TITLE OF INVENTION: Asthma Related Genes  
 NUMBER OF SEQUENCES: 339  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Bozicevic & Reed, LLP  
 STREET: 285 Hamilton Ave, Suite 200  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94301  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/009,913  
 FILING DATE: 21-JAN-1998  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Sherwood, Pamela J  
 REGISTRATION NUMBER: 36,677  
 REFERENCE/DOCKET NUMBER: SEQ-4P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 850-327-3231  
 TELEFAX: 650-327-3231  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 5510 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 US-09-009-913-3

Alignment Scores:  
 Pred. No.: 1.85e-44 Length: 5510  
 Score: 555.50 Matches: 126  
 Percent Similarity: 51.24% Conservative: 39  
 Best Local Similarity: 39.13% Mismatches: 78  
 Query Match: 28.06% Indels: 79  
 DB: 3 Gaps: 8

US-08-978-217-2 (1-371) x US-09-009-913-3 (1-5510)

Qy 59 TrpLeuGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysSerTyr 78  
 Db 356 TGGCATGAAATTCATCTCAGTACTGACCAAGTACCAGGTGGGAGTGGCTCCAGCAC 415  
 Qy 79 GlnValGluLysAsnLysTyrrAspAlaSerAlaIleAspPheSerArgCysAspMetAsp 98  
 Db 416 CTCTGGACACCAACCACTGGATGCAATGTATCCCTTCCAGAGTTCGACATCAAC 475  
 Qy 99 GlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGly 118  
 Db 476 GCGAGCACCTCTGAGCAGTGGATTTTCAGGAGTTCACCGCGCGGCGAGCGCGGG 535  
 Qy 119 AspGlnLeuHisAlaGlnLeuArgAspLeuThr-----SerSerSerSerAspGlu 135  
 Db 536 CAGTCTCTTACAGCAACTTCAGCAGTCTGAGTGGAGCGGCGGCGAGTGTAGTAC--- 592  
 Qy 136 LeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAsp 155  
 Db 593 -----CTGTTCAGTCC----- 604  
 Qy 156 ProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspGlyGlnGln 175  
 Db 605 -----ACACAAATGTCTATCTGTCAGACTGAACAA 634

176 AlaserProTyrHisProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAsp 195  
 635 ACTGAGCT-----  
 196 ValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerSerGlyGlySer 215  
 644 ---TCCATCATGACACCTCGAAGACGAGCACTATTATATGACACCACTATGCTAGC 700  
 216 AspValAspLeuAspProThrArgGlyLysLeuPheProSerAspGlyPheArgAspCys 235  
 701 ACAGTAGATTG-----TTGGACAGCAAACTTTC-----TGC 733  
 236 LysLys-----GlyAspProLysHisGly 243  
 734 CGGGCTCAGATCTCCATGACAAACCCAGTCACCTTCTGTCAGAGTCACCTGATATG 793  
 244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyTrpAspCysLeuGly 263  
 794 AAAGAGGAGCAAGACCCCTGCAAGTGCACACCAAA-----832  
 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeu 283  
 833 -----AAGCAACACCCGAGGAGTCACTTATGGAAATTCATCCGACATCTTC 883  
 284 IleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGluGlyValPhe 303  
 884 TTGAACCCAGCAAGAACCCGAGGATTAAATGAATGGAGACCGATCTGAGGCGCTTC 943  
 304 LysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLysAsnSerAsn 323  
 944 AGGTTCTGAATCAGAGGAGTGGCTCAGTCATGGGTAAAGAAAGAACACACAGCAGC 1003  
 324 MetThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGluLysLeuGlu 343  
 1004 ATGACCTATGAAGAGCTCAGCCGAGCTATGAGATATTACTACAAAGAGAAATCTGGAG 1063  
 344 ArgValAspGlyArgArgLeuValTyrPheGlyLysAsnSerSerGlyTrpLysGlu 363  
 1064 CGTGTGGATGACGAGACTGGTATATATATTTGGGAAGATGCCCGAGATGGAGAA 1123  
 364 GluGlu 365  
 1124 AATGAA 1129

RESULT 11

US-09-009-913-4  
 ; Sequence 4, Application US/09009913  
 ; Patent No. 6087485  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Axys Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma Related Genes  
 ; NUMBER OF SEQUENCES: 339  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Bozicevic & Reed, LLP  
 ; STREET: 285 Hamilton Ave, Suite 200  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94301  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/009,913  
 ; FILING DATE: 21-JAN-1998  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

NAME: Sherwood, Pamela J  
 REGISTRATION NUMBER: 36,677  
 REFERENCE/DOCKET NUMBER: SEQ-4P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 650-327-3231  
 TELEFAX: 650-327-3231  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 5667 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 US-09-009-913-4

Alignment Scores:  
 Pred. No.: 1,93e-44 Length: 5667  
 Score: 555.50 Matches: 126  
 Percent Similarity: 51.24% Conservative: 39  
 Best Local Similarity: 39.13% Mismatches: 79  
 Query Match: 28.06% Indels: 79  
 DB: 3 Gaps: 8

US-08-978-217-2 (1-371) x US-09-009-913-4 (1-5667)

QY 59 TrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpLysSerTyr 78  
 DB 513 TGGCATGAAATTCATCTCTGACTGACCCAGTACCGAGTGGGAGTGGCTCCAGCAC 572  
 QY 79 GlnValGluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAsp 98  
 DB 573 CTCCTGGACACCAACCATGATGCAATTTGTTATCCCTTTCCAAAGATTCCGACATCAAC 632  
 QY 99 GlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGly 118  
 DB 633 GCGAGACACCTCTCGAGCATGAGTTGCGAGGTTCCACCGGCGGCGGAGCGCGGG 692  
 QY 119 AspGlnLeuHisAlaGlnLeuArgAspLeuThr-----SerSerSerSerAspGlu 135  
 DB 693 CAGCTCTCTACAGCAACTTCAGCATCTGAAGTGAACGCGCAGTCAGTAGTGAC--- 749  
 QY 136 LeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGluAlaLeuAsp 155  
 DB 750 -----CTGTCCAGTCC----- 761  
 QY 156 ProGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGlyGlnGln 175  
 DB 762 -----ACACACAATGTCATTGTCAAGACTGAACAA 791  
 QY 176 AlaSerProTyrHisProGlySerCysGlyAlaGlyAlaProSerProGlySerSerAsp 195  
 DB 792 ACTGAGCT----- 800  
 QY 196 ValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerSerGlyGlySer 215  
 DB 801 ---TCCATCATGACACCTCGAAGACGAGCACTATTATATGACACCACTATGCTAGC 857  
 QY 216 AspValAspLeuAspProThrArgGlyLysLeuPheProSerAspGlyPheArgAspCys 235  
 DB 858 ACAGTAGATTG-----TTGGACAGCAAACTTTC-----TGC 890  
 QY 236 LysLys-----GlyAspProLysHisGly 243  
 DB 891 CGGGCTCAGATCTCCATGACAAACCCAGTCACCTTCTGTCAGAGTCACCTGATATG 950  
 QY 244 LysArgLysArgGlyArgProArgLysLeuSerLysGlyTrpTrpAspCysLeuGly 263  
 DB 951 AAAAGAGGAGCAAGACCCCTGCAAGTGCACACCAAA-----989  
 QY 264 LysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArgAspLeu 283  
 DB 990 -----AAGCAACACCCGAGGAGTCACTTATGGGAATTCATCCGACATCTCTC 1040

[illegible]

RESULT 12  
 US-09-020-956-44/c  
 ; Sequence 44, Application US/09020956  
 ; Patent No. 6261562  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Dillin, Davin C.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
 ; NUMBER OF SEQUENCES: 178  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SEED AND BERRY LLP  
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue

NUMBER OF SEQUENCES: 224  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: SEED and BERRY LLP  
 STREET: 6300 Columbia Center, 701 Fifth Avenue  
 CITY: Seattle  
 STATE: WA  
 COUNTRY: USA  
 ZIP: 98104

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 FILING DATE: 25-FEB-1998  
 APPLICATION NUMBER: US/09/030,607

CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Maki, David J.  
 REGISTRATION NUMBER: 31,392  
 REFERENCE/DOCKET NUMBER: 210121.427C3  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (206) 622-4900  
 TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 44:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 852 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapiens  
 US-09-030-607-44

Alignment Scores:  
 Pred. No.: 4,04e-42 Length: 852  
 Score: 519.50 Matches: 121  
 Percent Similarity: 50.97% Conservatives: 37  
 Best Local Similarity: 39.03% Mismatches: 73  
 Query Match: 26.24% Indels: 79  
 DB: 3 Gaps: 8

US-08-978-217-2 (1-371) x US-09-030-607-44 (1-852)

```

Qy 71 GlnValLeuAspTrpIleSerTyGlnValGluLeuAsnLysTyAspAlaSerAlaIle 90
Db 850 CAGGTGGGAGTGGCTCCATCCCTCGACACACACACACACACACACACACACACACAC 791
Qy 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeu 110
Db 790 CCTTTCGAGTTCGACATCAACCGCGAGCACCTTTGACGATGAGTTGCGAGGATTC 731
Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129
Db 730 ACCGGGGCGGCGAGGACGGGGGGGACCTCCCTACGCAACTTCGAGCATTCGAAGTGG 671
Qy 130 -----SerSerSerSerAspGluLeuSerTrpIleLeuLeuLeuLysAspGly 147
Db 670 AACGGCGCGAGTGCAGTAGTGAC----- 650
Qy 148 MetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167
Db 649 ----CTGTTCCAGTCC-----ACACAC 632
Qy 168 GluLeuLeuAspAspGlyGlnAlaSerProTyHisProGlySerCysGlyAlaGly 187
Db 631 AATGTCATTTCAGACTGACAACTGACCT----- 599
Qy 188 AlaProSerProGlySerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSer 207
Db 598 -----TCCATCATGAACACCTCGGAAGACNAGAACTAT 566

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Qy 208 HisSerSerAspSerGlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPhe 227
Db 565 TTATATGACACCACTATGTCAGCAGTAGATTG-----TTGACAGCAAAACTTTC 512
Qy 228 ProSerAspGlyPheArgAspCysLysLys----- 237
Db 511 -----TGCCGGGCTCAGATCTCCATGACACACACACACACCTT 473
Qy 238 -----GlyAspProLysHisGlyLysArgLysArgLysArgLysLeuSerLys 255
Db 472 CCTGTTGACAGAGTCACCTGATATAAGAGGACAGACCCCTCCCAAGTGCACAC 413
Qy 256 GluTyTrpAspCysLeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeu 275
Db 412 AAA-----AAGCAACCCGAGAGGGACTCACTTA 383
Qy 276 TrpGluPheIleArgAspIleLeuHisProGluLeuAsnGluGlyLeuMetLysTrp 295
Db 382 TGGGAATTTCATCCGCGACATCTCTTGAACCCAGACACAGACCCAGGATTAATAAATGG 323
Qy 296 GluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrp 315
Db 322 GAAGACCGATCTGAGGCGCTTTCAGGTTCTTGAATCAGAGGAGTGGCTCAGCTATGG 263
Qy 316 GlyGlnLysLysLysAsnSerAsnMetThrTyGluLysLeuSerArgAlaMetArgTy 335
Db 262 GGTAAAGAAGAGAACACACAGCAGCATGCTATGAAAAGCTCAGCCGAGCTATGATAT 203
Qy 336 TyTrpLysArgGluLeuLeuGluArgValAspGlyArgArgLeuValTyLysPheGly 355
Db 202 TACTACAAAAGAGAAATTCGAGCGCTGTGGATGGACGAGACTGGTATATAAATTTGG 143
Qy 356 LysAsnSerSerGlyTrpLysGluGluGlu 365
Db 142 AGAATGCCGAGATGGAGAAAATGAA 113

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# RESULT 14

US-09-439-313-44/c  
 ; Sequence 44, Application US/09439313  
 ; Patent No. 6329505  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jianshun  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Harlocker, Susan Louise  
 ; APPLICANT: Jiang Yuqui  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Kalos, Michael  
 ; APPLICANT: Fanger, Gary  
 ; APPLICANT: Retter, Mark  
 ; APPLICANT: Solk, John  
 ; APPLICANT: Day, Craig  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
 ; FILE REFERENCE: 210121.427C9  
 ; CURRENT APPLICATION NUMBER: US/09/439,313  
 ; CURRENT FILING DATE: 1999-11-12  
 ; NUMBER OF SEQ ID NOS: 575  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 44  
 ; LENGTH: 852  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)...(852)  
 ; OTHER INFORMATION: n = A,T,C or G  
 US-09-439-313-44

Alignment Scores:  
 Pred. No.: 4.04e-42 Length: 852  
 Score: 519.50 Matches: 121  
 Percent Similarity: 50.97% Conservatives: 37

Best Local Similarity: 39.03% Mismatches: 73  
Query Match: 26.24% Indels: 79  
DB: 4 Gaps: 8

US-08-978-217-2 (1-371) x US-09-439-313-44 (1-852)

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Qy 71 GlnValLeuAspTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerAlaIle 90
Db 850 CAGGTGTGGAGTGGCTCCATCCCTCTGGACCAACAGCAGTGGATGCCAATTGTATC 791
Qy 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeu 110
Db 790 CCTTTCAGAGTTCAGATCAACAGCGGAGCAGCTTTGAGCATGTGAGTTCAGAGTTC 731
Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129
Db 730 ACCCGGCGGAGCGGAGCGGCGGAGCAGCTCTCTACAGCAACTTGCAGCATCTGAGTGG 671
Qy 130 -----SerSerSerSerSerSerSerSerTrrpIleileGluLeuLysAspGly 147
Db 670 AACGGCCAGTGCAGTAGTGC----- 650
Qy 148 MetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167
Db 649 ---CTGTTCAGTCC-----ACACAC 632
Qy 168 GluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGly 187
Db 631 AATGTCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 599
Qy 188 AlaProSerProGlySerSerSerSerSerSerTrrpIleileGluLeuLysAspGly 207
Db 598 -----TCCATCATGAACACCTTGGAGCAAGTTCAGAGTTC 731
Qy 208 HisSerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSer 255
Db 565 TTATATGACCAACTATGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 791
Qy 228 ProSerAspGlyPheArgAspCysLysLys----- 237
Db 511 -----TGCGGGCTCAGATCTCCATGACACACACAGTCACTT 473
Qy 238 -----GlyAspProLysHisGlyArgLysArgGlyArgProArgLysLeuSerLys 255
Db 472 CCTGTTCAGAGTCACTGTATGATAAAGAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 413

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RESULT 15

US-09-352-616A-44/c

; Sequence 44, Application US/09352616A

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; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jianshun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352.616A
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
; US-09-352-616A-44

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Alignment Scores:  
Pred. No.: 4,04e-42 Length: 852  
Score: 519.50 Matches: 121  
Percent Similarity: 50.97% Conservative: 37  
Best Local Similarity: 39.03% Mismatches: 73  
Query Match: 26.24% Indels: 79  
DB: 4 Gaps: 8

US-08-978-217-2 (1-371) x US-09-352-616A-44 (1-852)

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Qy 71 GlnValLeuAspTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerAlaIle 90
Db 850 CAGGTGTGGAGTGGCTCCATCCCTCTGGACCAACAGCAGTGGATGCCAATTGTATC 791
Qy 91 AspPheSerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeu 110
Db 790 CCTTTCAGAGTTCAGATCAACAGCGGAGCAGCTTTGAGCATGTGAGTTCAGAGTTC 731
Qy 111 ArgLeuValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThr 129
Db 730 ACCCGGCGGAGCGGAGCGGCGGAGCAGCTCTCTACAGCAACTTGCAGCATCTGAGTGG 671
Qy 130 -----SerSerSerSerSerSerSerSerTrrpIleileGluLeuLysAspGly 147
Db 670 AACGGCCAGTGCAGTAGTGC----- 650
Qy 148 MetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGln 167
Db 649 ---CTGTTCAGTCC-----ACACAC 632
Qy 168 GluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGly 187
Db 631 AATGTCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 599
Qy 188 AlaProSerProGlySerSerSerSerSerSerTrrpIleileGluLeuLysAspGly 207
Db 598 -----TCCATCATGAACACCTTGGAGCAAGTTCAGAGTTC 731
Qy 208 HisSerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSerSer 227
Db 565 TTATATGACCAACTATGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 512
Qy 228 ProSerAspGlyPheArgAspCysLysLys----- 237
Db 511 -----TGCGGGCTCAGATCTCCATGACACACACAGTCACTT 473
Qy 238 -----GlyAspProLysHisGlyArgLysArgGlyArgProArgLysLeuSerLys 255
Db 472 CCTGTTCAGAGTCACTGTATGATAAAGAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 413

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QY 256 GluTyrTrpAspCysLeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeu 275
Db 412 AAA-----AAGCAACCCGAGAGGACTCACTTA 383
QY 276 TrpGluPheIleArgAspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrp 295
Db 382 TGGGAATTCATCCGCGACATCCTCTTGAACCCAGACAGACCCAGGATTAATAAAATGG 323
QY 296 GluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrp 315
Db 322 GAAGACCGATCTGAGGGCGTCTTCAGGTCTTGAATCAGAGCGAGTGGCTCAGCTATGG 263
QY 316 GlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyr 335
Db 262 GGTAAAGAAAGAAACAAACACAGCATGACCTATGAAAGCTCAGCCGAGCTATGAGATAT 203
QY 336 TyrTyrLysArgGluIleLeuGluArgValAspGlyArgGluLeuValTyrLysPheGly 355
Db 202 TACTACAAAGAGAAATCTGGAGCGTGTGGATGGACGAGACTGGTATATTAATTTGGG 143
QY 356 LysAsnSerSerGlyTrpLysGluGluGlu 365
Db 142 AAGAATGCCCGAGGATGGAGAGAAATGAA 113
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Search completed: February 12, 2004, 21:49:55  
Job time : 105.522 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 12, 2004, 21:46:16 ; Search time 64.1925 Seconds  
(without alignments)  
7673.534 Million cell updates/sec

Title: US-08-978-217-1  
Perfect score: 1116  
Sequence: 1 ATGGCTGCAACTGTGTGAGAT.....TTCCTCAGAGTCGGAATGA 1116

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
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2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/prodata/1/ina/5A\_COMB.seq: \*  
4: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*  
5: /cgn2\_6/prodata/1/ina/5A\_COMB.seq: \*  
6: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1116	100.0	1307	4	US-09-300-958A-27
2	1116	100.0	1307	4	US-09-570-593-4
3	1109.6	99.4	1320	1	US-08-746-789A-1
4	499.4	44.7	502	4	US-09-389-681-282
5	499.4	44.7	502	4	US-09-620-405B-282
6	499.4	44.7	502	4	US-09-339-338-282
7	499.4	44.7	502	4	US-09-433-826B-282
8	499.4	44.7	502	4	US-09-604-287A-282
9	173.8	15.6	852	3	US-09-020-956-44
10	173.8	15.6	852	3	US-09-030-607-44
11	173.8	15.6	852	4	US-09-439-313-44
12	173.8	15.6	852	4	US-09-352-616A-44
13	173.8	15.6	852	4	US-09-232-149A-44
14	173.8	15.6	5427	3	US-09-009-913-2
15	173.8	15.6	5510	3	US-09-009-913-3
16	173.8	15.6	5667	3	US-09-009-913-4
17	166	14.9	237	4	US-09-016-434-927
18	162.6	14.6	848	3	US-09-009-913-338
19	101.2	9.1	2280	3	US-09-009-913-8
20	101.2	9.1	2428	3	US-09-009-913-6
21	101.2	9.1	2498	3	US-09-009-913-10
22	84.8	7.6	2366	2	US-09-213-767-1
23	78.2	7.0	1894	4	US-09-570-593-1
24	78.2	7.0	1905	3	US-09-055-113-2
25	78.2	7.0	3317	4	US-09-570-593-12
26	73.4	6.6	2975	1	US-08-368-281-1
27	73.4	6.6	3240	1	US-08-368-281-3

28	69.4	6.2	252	4	US-09-016-434-307	Sequence 307, Appl
29	68.2	6.1	1933	4	US-09-920-759-3	Sequence 3, Appl
30	68.2	6.1	1976	4	US-09-920-759-10	Sequence 10, Appl
31	66.6	6.0	1752	3	US-09-360-779-1	Sequence 1, Appl
32	66.6	6.0	1752	4	US-09-435-333-1	Sequence 1, Appl
33	65.6	5.9	2268	3	US-09-344-579-1	Sequence 1, Appl
34	65.4	5.9	792	4	US-09-016-434-840	Sequence 840, Appl
35	63.4	5.7	2938	2	US-08-343-443B-3	Sequence 3, Appl
36	59.8	5.4	2667	2	US-08-469-412A-1	Sequence 1, Appl
37	59.8	5.4	2667	3	US-09-021-715-1	Sequence 1, Appl
38	59.4	5.3	2064	3	US-08-875-944B-1	Sequence 1, Appl
39	59.4	5.3	2064	3	US-09-116-049-3	Sequence 1, Appl
40	59.4	5.3	2064	4	US-09-602-868A-1	Sequence 1, Appl
41	59.4	5.3	2064	4	US-09-884-363-3	Sequence 3, Appl
42	58	5.2	463	4	US-09-300-958A-25	Sequence 25, Appl
43	58	5.2	665	4	US-09-920-759-11	Sequence 11, Appl
44	57.8	5.2	2532	4	US-09-620-312D-869	Sequence 869, Appl
45	53.6	4.8	1447	3	US-08-878-177-1	Sequence 1, Appl

## ALIGNMENTS

### RESULT 1

US-09-300-958A-27  
; Sequence 27, Application US/09300958A  
; Patent No. 6495319  
; GENERAL INFORMATION:  
; APPLICANT: McClelland, Michael  
; APPLICANT: Trenkle, John  
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of  
; TITLE OF INVENTION: Using Same  
; FILE REFERENCE: P-PH 3457  
; CURRENT APPLICATION NUMBER: US/09/300,958A  
; CURRENT FILING DATE: 1999-04-27  
; PRIOR APPLICATION NUMBER: 60/083,331  
; PRIOR FILING DATE: 1998-04-27  
; PRIOR APPLICATION NUMBER: 60/098,070  
; PRIOR FILING DATE: 1998-08-27  
; PRIOR APPLICATION NUMBER: 60/118,624  
; PRIOR FILING DATE: 1999-02-04  
; NUMBER OF SEQ ID NOS: 85  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-300-958A-27

Query Match	100.0%;	Score 1116;	DB 4;	Length 1907;
Best Local Similarity	100.0%;	Pred. No. 1.6e-273;		
Mismatches 1116;	Conservative	0;	Mismatches	0;
Gaps	0;			
Qy	1	ATGGCTGCAACTGTGAGATTAGCAATTTAGCAACTACTTTCAGTCGGATGACACG	60	
Db	96	ATGGCTGCAACTGTGAGATTAGCAATTTAGCAACTACTTTCAGTCGGATGACACG	155	
Qy	61	TCGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG	120	
Db	156	TCGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTG	215	
Qy	121	GTACTGACCTTGAGCAACCCGACAGATGTCATTTGGAGGGTACAGAGAGCCGAGCTGGTTG	180	
Db	216	GTACTGACCTTGAGCAACCCGACAGATGTCATTTGGAGGGTACAGAGAGCCGAGCTGGTTG	275	
Qy	181	GGGGAACAGCCCGCAGTTCTTGGTGAAGAGCGAGGTTCTGGATCGATACCAAGTG	240	
Db	276	GGGGAACAGCCCGCAGTTCTTGGTGAAGAGCGAGGTTCTGGATCGATACCAAGTG	335	
Qy	241	GAGAAGAACAGTACGACGCAAGCGCCATTGACTTCTACGATGTGACATGATGCGGCC	300	
Db	336	GAGAAGAACAGTACGACGCAAGCGCCATTGACTTCTACGATGTGACATGATGCGGCC	395	



QY 841 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 900  
Db 936 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA 995  
QY 901 GCGCTCTTCAAGTTCCTCGCTCCGAGCTCGAGCTGTGGCCCAACTATGGGCCCAAAAGAAAAG 960  
Db 996 GCGCTCTTCAAGTTCCTCGCTCCGAGCTCGAGCTGTGGCCCAACTATGGGCCCAAAAGAAAAG 1055  
QY 961 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAG 1020  
Db 1056 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACTACAAACGGGAG 1115  
QY 1021 ATCTCGAAGCGGTGGATGGCGGCGACTCTGCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1080  
Db 1116 ATCTCGAAGCGGTGGATGGCGGCGACTCTGCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1175  
QY 1081 TGGAGGAGGAGAGAGTTCTCCAGAGTCGGAACCTGA 1116  
Db 1176 TGGAGGAGGAGAGAGTTCTCCAGAGTCGGAACCTGA 1211

## RESULT 3

US-08-746-789A-1

Sequence 1, Application US/08746789A

Patent No. 5789200

GENERAL INFORMATION:

APPLICANT: Iemali Kola, Martin J. Tymms, Christine DeBouck

TITLE OF INVENTION: A No. 5789200e1 Human ETS Family Member, B1F3

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation

STREET: 709 Swedeland Road, P.O. Box 1539

CITY: King of Prussia

STATE: PA

COUNTRY: USA

ZIP: 19406-0939

COMPUTER READABLE FORM:

MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE

OPERATING SYSTEM: WINDOWS FOR WORKGROUPS

SOFTWARE: MICROSOFT WORD

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/746,789A

FILING DATE: No. 5789200ember 15, 1996

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: William T. Han

REGISTRATION NUMBER: 34,344

REFERENCE/DOCKET NUMBER: ATG 50024

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610 270 5219

TELEFAX: 610 270 4026

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1920

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

ANTI-SENSE: No

US-08-746-789A-1

Query Match 99.4%; Score 1109.6; DB 1; Length 1920;

Best Local Similarity 99.6%; Pred. No. 6.7e-272;

Matches 1112; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTGGCATGTACAGC 60

Db 115 ATGGCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTGGCATGTACAGC 174

QY 61 TCGAGGAGTCCACCTGTGGCCCTCTGTTCCTCCCTGTGCTGCCACCTTTTGGGGCCGCGATGACTTG 120

Db 175 TCGAGGAGTCCACCTGTGGCCCTCTGTTCCTCCCTGTGCTGCCACCTTTGGGGCCGATGACTTG 234  
QY 121 GTACTGACCTCAGCAACCCCGAGATGTCATTGGAGGTACAGAGAAGCCAGCTGGTTG 180  
Db 235 GTACTGACCTCAGCAACCCCGAGATGTCATTGGAGGTACAGAGAAGCTTACTGGTTG 294  
QY 181 GGGGAACAGCCCCAGTTCCTGTCGAAGAGCGCAGGTTCCTGGACTGGATCAAGTGG 240  
Db 295 GGGGAACAGCCCCAGTTCCTGTCGAAGAGCGCAGGTTCCTGGACTGGATCAAGTGG 354  
QY 241 GAGAAGAACAGTACGACGCAAGCCCATGACTTCTCAGCATGTGACATGATGGCCGC 300  
Db 355 GAGAAGAACAGTACGACGCAAGCCCATGACTTCTCAGCATGTGACATGATGGCCGC 414  
QY 301 ACCCTCTGCAATTTGTCCTTTCAGGAGTGGCTCTGGTCTTTGGCCCTCTGGGGACCAA 360  
Db 415 ACCCTCTGCAATTTGTCCTTTCAGGAGTGGCTCTGGTCTTTGGCCCTCTGGGGACCAA 474  
QY 361 CTCATGCGCAGCTGGAGACCTCACTTCAGCTCTTCTGATGAGTCACTGATGATCATT 420  
Db 475 CTCATGCGCAGCTGGAGACCTCACTTCAGCTCTTCTGATGAGTCACTGATGATCATT 534  
QY 421 GAGCTGCTGGAAGAGGATGGCATGGCTTCCAGGAGGGCCCTAGACCCAGGGCCCTTTGAC 480  
Db 535 GAGCTGCTGGAAGAGGATGGCATGGCTTCCAGGAGGGCCCTAGACCCAGGGCCCTTTGAC 594  
QY 481 CAGGGCAGCCCTTTGTCGAGAGCTGTGAGAGAGCGTTCAGCAAGCCAGCCCTTACAC 540  
Db 595 CAGGGCAGCCCTTTGTCGAGAGCTGTGAGAGAGCGTTCAGCAAGCCAGCCCTTACAC 654  
QY 541 CCGGCGAGCTGTGGCGCAGGAGCCCTCCCTGCGCAGCTCTGAGCTCTCCACCGCAGG 600  
Db 655 CCGGCGAGCTGTGGCGCAGGAGCCCTCCCTGCGCAGCTCTGAGCTCTCCACCGCAGG 714  
QY 601 ATGTGCTCTTCGAGAGTCCCACTCTCAGACTCCGCTGCGAGAGTCACTGAGACTTGGAT 660  
Db 715 ATGTGCTCTTCGAGAGTCCCACTCTCAGACTCCGCTGCGAGAGTCACTGAGACTTGGAT 774  
QY 661 CCCACTGATGGCAAGCTCTTCCCGCAGGATGTTTTGCTGACTGCAAGAGGGGATCCC 720  
Db 775 CCCACTGATGGCAAGCTCTTCCCGCAGGATGTTTTGCTGACTGCAAGAGGGGATCCC 834  
QY 721 AAGCAGCGGAAAGCGGAAACGAGCGCGGCCCGCCGAAAGCTGAGCAAGAGTACTGGGACTGT 780  
Db 835 AAGCAGCGGAAAGCGGAAACGAGCGCGGCCCGCCGAAAGCTGAGCAAGAGTACTGGGACTGT 894  
QY 781 CTCGAGGCAAGAGAGCAAGCAAGCGCGCCAGAGCCACCTCTGTCGAGTTCATCCGG 840  
Db 895 CTCGAGGCAAGAGAGCAAGCAAGCGCGCCAGAGCCACCTCTGTCGAGTTCATCCGG 954  
QY 841 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGAA 900  
Db 955 GACATCTCTCATCCACCCGGAGCTCAACGAGGGCCCTCATGAAGTGGGAGAAATCGGCATGAA 1014  
QY 901 GGGCTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGCCCAAGAAAG 960  
Db 1015 GGGCTCTTCAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGCCCAAGAAAG 1074  
QY 961 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTTACTACAAACGGGAG 1020  
Db 1075 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTTACTACAAACGGGAG 1134  
QY 1021 ATCTCGAAGCGGTGGATGGCGGCGACTCTGCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1080  
Db 1135 ATCTCGAAGCGGTGGATGGCGGCGACTCTGCTACAAAGTTTGGCAAAAACCTCAAGCGGC 1194  
QY 1081 TGGAGGAGGAGAGAGTTCTCCAGAGTCGGAACCTGA 1116  
Db 1195 TGGAGGAGGAGAGAGTTCTCCAGAGTCGGAACCTGA 1230

RESULT 4

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US-09-389-681-282
; Sequence 282, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqi, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-389-681-282

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Query Match	44.7%	Score 499.4	DB 4	Length 502
Best Local Similarity	99.8%	Pred. No. 1.8e-117		
Matches 500	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	549	CTGTGGCGCAGGAGCCCTCCCTCTGCGACGCTCTGACGCTCCACCGCAGGAGACTGTGTGC	608	
Db	2	CTGTGGCGCAGGAGCCCTCCCTCCCGCAGCTCTGACGCTCCACCGCAGGAGACTGTGTGC	61	
QY	609	TTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAGTGAGCTGGAGCCTTGGATCCCACTGA	668	
Db	62	TTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAGTGAGCTGGAGCCTTGGATCCCACTGA	121	
QY	669	TGGCAAGCTTTTCCCGCAGCATGGTTTTTCTGTGACTCGAAGAGGGGAGTCCCAAGCACGG	728	
Db	122	TGGCAAGCTTTTCCCGCAGCATGGTTTTTCTGTGACTCGAAGAGGGGAGTCCCAAGCACGG	181	
QY	729	GAAGCGGAAACGAGGCGCGGCCCGCCGAAAGCTTGAGCAAGAGTACTGGGACTGTCTCGAGGG	788	
Db	182	GAAGCGGAAACGAGGCGCGGCCCGCCGAAAGCTTGAGCAAGAGTACTGGGACTGTCTCGAGGG	241	
QY	789	CAAGAAGAGCAAGCAGCGGCCCGCAGAGGCACCCACCTGTGGGAGTTCTCCGGGAGCATCCT	848	
Db	242	CAAGAAGAGCAAGCAGCGGCCCGCAGAGGCACCCACCTGTGGGAGTTCTCCGGGAGCATCCT	301	
QY	849	CATCCACCCGGAGCTCAACGAGGCGCTCATGAAGTGGAGAAATCGGCATGAAGGCGTCTT	908	
Db	302	CATCCACCCGGAGCTCAACGAGGCGCTCATGAAGTGGAGAAATCGGCATGAAGGCGTCTT	361	
QY	909	CAAGTTCCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAGAAAAGAAAGACAGAA	968	
Db	362	CAAGTTCCTGCGCTCCGAGGCTGTGGGGCCAAAGAAAAGAAAGAAAGACAGCAA	421	
QY	969	CATGACTACGAGAAGCTGAGCCGGGCCCATGAGGTACTACTCAAAACGGGAGATCCTCGA	1028	
Db	422	CATGACTACGAGAAGCTGAGCCGGGCCCATGAGGTACTACTCAAAACGGGAGATCCTCGA	481	
QY	1029	ACGGGTGGATGCGCGCGACT	1049	
Db	482	ACGGGTGGATGCGCGCGACT	502	

RESULT 5  
US-09-820-405B-382  
; Sequence 282, Application US/09620405B  
; Patent No. 6528054  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.

```

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-620-405B-282

Query Match          44.7%; Score 499.4; DB 4; Length 502;
Best Local Similarity 99.8%; Pred. No. 1.8e-117;
Matches 500; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      549  CTGTGGCGGAGGAGCCCCCTCCCTGGCAGCTCTGACGCTCTCCACCGCAGGAGTGTGTGC 608
Db      2    CTGTGGCGGAGGAGCCCCCTCCCGGGCAGCTCTGACGCTCTCACCGCAGGAGTGTGTGC 61

Qy      609  TTCTCGGAGTCCCACTCTCTCAGACTCCGGTGAAGTGAAGTGGAGCTTGATCCCACTGA 668
Db      62   TTCTCGGAGTCCCACTCTCTCAGACTCCGGTGAAGTGAAGTGGAGCTTGATCCCACTGA 121

Qy      669  TGSCAAGCTCTTCCCGCAGCGATGGTTTTCGTGACTGCAAGAAGGGGATCCCAAGCACGG 728
Db      122  TGSCAAGCTCTTCCCGCAGCGATGGTTTTCGTGACTGCAAGAAGGGGATCCCAAGCACGG 181

Qy      729  GAAGCGGAAACGAGGCGCGGCCGCGAAAGCTGAGCAAGAAGTACTTGGAGTGTCTCGAGGG 788
Db      182  GAAGCGGAAACGAGGCGCGGCCGCGAAAGCTGAGCAAGAAGTACTTGGAGTGTCTCGAGGG 241

Qy      789  CAAGAAGAGCAAGCAGCGCCCGCAGAGCACCCACCTGTGGAGTTTCATCCGGACATCCT 848
Db      242  CAAGAAGAGCAAGCAGCGCCCGCAGAGCACCCACCTGTGGAGTTTCATCCGGACATCCT 301

Qy      849  CATCTACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAAATCGGCATGAAGGCGTCTT 908
Db      302  CATCTACCCGGAGCTCAACGAGGGCCTCATGAAGTGGGAGAAATCGGCATGAAGGCGTCTT 361

Qy      909  CAAGTTCTTCGCTTCGAGGCTGTGGCCCAACTATGGGGCCAAAGAAAAGAACAGCAA 969
Db      362  CAAGTTCTTCGCTTCGAGGCTGTGGGCCCAACTATGGGGCCAAAGAAAAGAACAGCAA 421

Qy      969  CATGACCTACGAAAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGA 1028
Db      422  CATGACCTACGAAAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGA 481

Qy      1029 ACGGGTGGATGGCGGCGACT 1049
Db      482  ACGGGTGGATGGCGGCGACT 502

```

RESULT 6  
 US-09-339-338-282  
 ; Sequence 282, Application US/09339338A  
 ; Patent No. 6573368  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yugiu, Jiang  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.470C2  
 ; CURRENT APPLICATION NUMBER: US/09/339,338A  
 ; CURRENT FILING DATE: 1999-06-23  
 ; NUMBER OF SEQ ID NOS: 315  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA



Db 122 TGGCAAGCTCTTCCCAAGCATGTTTTCGTGACTGCAAGAGGGGATCCCAAGCACGG 181  
QY 729 GAACCGGAACAGGCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGG 788  
Db 182 GAACCGGAACAGGCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGG 241  
QY 789 CAAGAAGCAAGCAAGCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGG 848  
Db 242 CAAGAAGCAAGCAAGCGCGCCGGAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGG 301  
QY 849 CATCCACCGGAGCTCAACAGGCGCTCTGAGTGGGAGATCGGATGAGGCGCTCTT 908  
Db 302 CATCCACCGGAGCTCAACAGGCGCTCTGAGTGGGAGATCGGATGAGGCGCTCTT 361  
QY 909 CAAGTCTCTGGCTCCGAGGCTGTGGCGCCCAACTATATGGGGCCCAAGAAAGAAAGCAAGCAA 968  
Db 362 CAAGTCTCTGGCTCCGAGGCTGTGGCGCCCAACTATATGGGGCCCAAGAAAGAAAGCAAGCAA 421  
QY 969 CATGACTACGAGAGCTGAGCGCGCGGCTGAGTACTACTACAAAGGAGATCTGGA 1028  
Db 422 CATGACTACGAGAGCTGAGCGCGCGGCTGAGTACTACTACAAAGGAGATCTGGA 481  
QY 1029 ACGGCTGATGGCGCGGACT 1049  
Db 482 ACGGCTGATGGCGCGGACT 502

RESULT 9  
US-09-020-956-44/c  
; Sequence 44, Application US/09020956  
; Patent No. 6261562  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillin, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
; NUMBER OF SEQUENCES: 178  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/020,956  
; FILING DATE: 09-FEB-1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Makl, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.427C2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 852 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
US-09-020-956-44  
Query Match 15.6%; Score 173.8; DB 3; Length 852;  
Best Local Similarity 69.7%; Pred. No. 6.5e-35;  
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGACCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAAGCAGCGCCCGCAGAGGCA 817  
Db 450 TGAAGAGGCAAGACCCCTCCCAAGTGCCACCAAAAGACCAACCCGAGAGGGA 391  
QY 818 CCCACCTGTGGAGTTTCATCGGAGCATCTCTCATCCACCCGAGGCTCAACGAGGGCTCA 877  
Db 390 CTCACCTATGGGAATTCATCGGAGCATCTCTTGAACCCAGACAAGAACCCAGGATTA 331  
QY 878 TGAAGTGGGAGATCGGATGAGGCGCTCTCAAGTTCTTCTGCGCTCGAGGCTGTGGCCC 937  
Db 330 TAAATGGGAAGACCGATCTGAGGCGCTCTTCAAGTTCTTGAATCAGAGGCTGTGGCTC 271  
QY 938 AACTATGGGCAAGAAAGAAAGCAACCACTACGAGAGCTGAGCGGCGCA 997  
Db 270 AGCTATGGGTAAGAAAGCAACCACTACGAGAGCTGAGCGGCGCA 211  
QY 998 TGAGGTACTACTACAAAGGAGATCTCTGGAACGGGTGGATGCGCGGCTGTCTTACA 1057  
Db 210 TGAGATATTACTACAAAGAGAAATCTTGGAGCGGTGTGGATGGACGAAGACTGGTATA 151  
QY 1058 AGTTGGCAAAACTCAAGCGGCTGGAAGAGGGAAGA 1094  
Db 150 AATTTGGGAAGATGCCCGGAGGATGGAGAGAAATGA 114

RESULT 10  
US-09-030-607-44/c  
; Sequence 44, Application US/09030607  
; Patent No. 6262245  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillin, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO  
; NUMBER OF SEQUENCES: 224  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: USA  
; ZIP: 98104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/030,607  
; FILING DATE: 25-FEB-1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Makl, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.427C3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 852 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
US-09-030-607-44  
Query Match 15.6%; Score 173.8; DB 3; Length 852;  
Best Local Similarity 69.7%; Pred. No. 6.5e-35;  
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY	758	TCAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAAGCACGCGGCCAGAGCCA	817
Db	450	TGAAAAAGGAGCAAGACCCCTCCCAAGTGCACACCAAAAAGCACACCCGAGAGGGA	391
QY	818	CCCACTCTGGGAGTTTCATCCGGGACATCTCTCATCCACCCGGAGCTCAACGAGGGCCTCA	877
Db	390	CTCATTTATGGAAATTCATCCGCGACATCTCTTTGAACCCACAGCAAGAACCCAGATTAA	331
QY	878	TGAAGCTGGGAGNATCGGCATGAAAGCGCTCTCAAGTTCCTGCGCTCCGAGGCTGTGGCC	937
Db	330	TAAATATGGAGAGCCGATCTGAGGCGCTCTTCAGGTTCTTGAATCAGAGGCAGTGGCTC	271
QY	938	AACATATGGGGCCAAAAGAAAAAGAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCA	997
Db	270	AGCTATGGGTAAAAAGAAAGAACCAACAGCAGCATGACCTATGAAAAGCTTCAGCCGAGCTA	211
QY	998	TCAGGTACTACTACAAACGGGAGATCTCTGGAAACGGTGGATGCGCGGGACATCGCTACAC	1057
Db	210	TGAGATATTTACTCAAAAGAGAAATCTCGAGGCGTGTGGATGACGAAGACTGGTATATA	151
QY	1058	AGTTGGCAAAACTCAAGCGGCTGGAGGAGGAAGA	1094
Db	150	AATTTGGGAAGAAATGCCCGAGATGGAGAGAAATGA	114

```

RESULT 11
US-09-439-313-44/c
; Sequence 44, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiaugchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqiu
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-439-313-44

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	Query Match	15.6%	Score 173.8	DB 4	Length 852
	Best Local Similarity	69.7%	Pred. No. 6.5e-35		
	Matches 235	Conservative 0	Mismatches 102	Indels 0	Gaps 0
Qy	758	TCAGCAGAAGCTACTGGGACTGTCTCAGGGGCAAGAGACGACGACGCGGCCACAGGCA	817		
Db	450	TGAAAAGAGGACAGACGCCCTGCCAAGTGCACACCAAAAAGCAACAACCCGAGAGGGA	391		
Qy	818	CCCACTCTGTGGAGTTCACTCCGGGACACTCTTCATCCACCGGAGCTCAACGAGGCGCTCA	877		
Db	390	CTCACTTATGGGAATTCATCCGCGACACTCTTGTGACCCAGACAGAACCCAGGATTAA	331		
Qy	878	TGAAGTGGGAGATCGGCATGAAGCGGTCTTCAAGTTCTGTGCGCTCCGAGGCTGTGGGCC	937		
Db	330	TAAATATGGGAGACCGATCTCAGGCGGTCTTCAGGTTCTTGAATTCAGAGGCAGTGGGCTC	271		

```

938 AACATATGGGCCCAAAAGAAAAAGAAACAGCAACATGACCTACGAGAAAGCTGAGCCGGGCCA 997
270 AGCTATGGGTTAAAAAGAAAGAAACAAACAGCAGCATGACCTATGAAAAAGCTCAGCCGAGCTA 211
998 TGAGGTACTACTACAAACGGGAGATCCTGGAACGGGTGATGGCCGGCGCACTCGTCTACA 1057
210 TGAGATATTACTACAAAAGAGAAATTCGGAGCGGTGATGACGAGAACTGGTATATA 151
1058 AGTTTGGCAAAACTCAAGCGGCTGGAAGGAGAA 1094
150 AATTTGGGAAGATGCCCGAGGATGAGAGAAATGA 114

RESULT 12
US-09-352-616A-44/c
; Sequence 44, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 852
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(852)
; OTHER INFORMATION: n = A,T,C or G
US-09-352-616A-44

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Query Match	15.6%	Score	173.8	DB	4	Length	852
Best Local Similarity	69.7%	Pred.	No. 6.5e-35				
Matches	235	Conservative	0	Mismatches	102	Indels	0
Gaps	0						
QY	758	TGAGCAAGAGTACTGGGACTGCTCTCAGGGCGCAAGAGCAGCAGCGCCCGAGAGGCA	81.7				
DB	450	TGAAAAAGGAGCAAGACCCCCCTGCCAAGTGCACACCAAAGACAAACCCGAGAGGGA	391				
QY	818	CCACACTGTGGGAGTTTCATCCGGGACATCCTCATCCACCCGGAGCTCAACGAGGGGCTCA	877				
DB	390	CTCACATTATGGGAATTCNTCCGGGACATCCTCTTGAAACCCAGACAAGAACCCAGGATTAA	331				
QY	878	TGAAGTGGGAGAAATCGGCHTGAAGGGCGTCTTCAAGTTCTCGCTCGGAGGCTGTGGCCC	937				
DB	330	TAAAAATGGGAAGACCCCATCTGAGGGCGTCTTCAGGTTCTTGAAATCAGAGGCCAGTGGCTC	271				
QY	938	AACATATGGGGCCAAAAGAAAAGAAACAGAAACATGACCTACGAGAGAGCTGAGCCGGGCCA	997				
DB	270	AGCTATGGGGTAAAAAGAGAAGAAACAGCAGCATGACCTATGAAAAAGCTCAGCCGAGCTA	211				
QY	998	TGAGGTACTACTACAAACGGGAGATCCTCGAAACGGGTGGATGGCCGGGACTCGTCTTACA	1057				
DB	210	TGAGATATTACTACAAAAGAGAAATTCGAGCGGTGTGGATGGACGAGACTGTTATATA	151				
QY	1058	AGTTTGGCAAAACTCAAGCGGTGGAAGAGGAAGA	1094				
DB	150	AATTTGGGAAGATGTCGCCAGATGAGAGAAAATCA	114				

RESULT 13  
US-09-232-149A-44/c  
; Sequence 44, Application US/09232149A



Patent No. 6465611  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Dillon, Davin C.  
APPLICANT: Mitcham, Jennifer Lynn  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE  
FILE REFERENCE: 210121.427C6  
CURRENT APPLICATION NUMBER: US/09/232,149A  
CURRENT FILING DATE: 1999-01-15  
NUMBER OF SEQ ID NOS: 338  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 44  
LENGTH: 852  
TYPE: DNA  
ORGANISM: Homo sapien  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1)-(852)  
OTHER INFORMATION: n = A, T, C or G  
US-09-232-149A-44

Query Match 15.6%; Score 173.8; DB 4; Length 852;  
Best Local Similarity 69.7%; Pred. No. 6.5e-35;  
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;  
QY 758 TGACCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAGCAGCGCCCGCAGAGGCA 817  
Db 450 TGAAGAGGAGCAGACCCCTCCCAAGTGCCACACCAAAAGCACAACCCGAGAGGA 391  
QY 818 CCCACCTGTGGGAGTTTCATCCGGGACATCTCATCCACCGGAGCTCAACGAGGGCCTCA 877  
Db 390 CTCACCTATGGGAATTCATCCGGGACATCTCTTGAACCCAGACAAGACCCAGGATTAA 331  
QY 878 TGAAGTGGGAGATCGGCATGAAGGGCTCTTCAAGTTCTCGGCTCCGAGGCTGTGGCCC 937  
Db 330 TAAAGTGGGAGACCCGATCTGAGGGCGCTCTTCAGGTTCTTGAATCAGAGGCGAGTGCTC 271  
QY 938 AACTATATGGGCCCCAAAAGAAAAAGAAAGAACAGCAACATGACCTACGAGAGAGCTGAGCCGGGCA 997  
Db 270 AGCTATGGGTTAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGCTAGGAGCTA 211  
QY 998 TGAGGTACTACTACAAAGCGGAGATCTCTGAAAGGGTGGATGCGCGGAGCTCGTCTACA 1057  
Db 210 TGAGATATTACTACAAAGAGAAATTTCTGGAGCGGTGTGGATGGACGAAGACTGGTATATA 151  
QY 1058 AGTTTGGCAAAACTCAAGCGGCTGGAAGGAGGAAGA 1094  
Db 150 AATTGGGAGAGATGCCCGGAGGATGGAGAGAAATGA 114

RESULT 14  
US-09-009-913-2  
Sequence 2, Application US/09009913  
Patent No. 6087485  
GENERAL INFORMATION:  
APPLICANT: AxyS Pharmaceuticals, Inc.  
TITLE OF INVENTION: Asthma Related Genes  
NUMBER OF SEQUENCES: 339  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bozicevic & Reed, LLP  
STREET: 285 Hamilton Ave, Suite 200  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/009,913

FILING DATE: 21-JAN-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Sherwood, Pamela J  
REGISTRATION NUMBER: 36,677  
REFERENCE/DOCKET NUMBER: SEQ-4P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-327-3231  
TELEFAX: 650-327-3231  
TELEX:  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5427 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-009-913-2

Query Match 15.6%; Score 173.8; DB 3; Length 5427;  
Best Local Similarity 69.7%; Pred. No. 1.1e-34;  
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;  
QY 758 TGACCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGCAGCAGCGCCCGCAGAGGCA 817  
Db 709 TGAAGAGGAGCAGACCCCTCCCAAGTGCCACACCAAAAGCACAACCCGAGAGGA 768  
QY 818 CCCACCTGTGGGAGTTTCATCCGGGACATCTCTCATCCACCGGAGCTCAACGAGGGCCTCA 877  
Db 769 CTCACCTATGGGAATTCATCCGGGACATCTCTTGAACCCAGACAAGACCCAGGATTAA 828  
QY 878 TGAAGTGGGAGATCGGCATGAAGGGCTCTTCAAGTTCTCGGCTCCGAGGCTGTGGCCC 937  
Db 829 TAAAGTGGGAGACCCGATCTGAGGGCGCTCTTCAGGTTCTTGAATCAGAGGCGAGTGCTC 888  
QY 938 AACTATATGGGCCCCAAAAGAAAAAGAAAGAACAGCAACATGACCTACGAGAGAGCTGAGCCGGGCA 997  
Db 889 AGCTATGGGTTAAAGAAAGAAAGAAAGAAAGAAAGAAAGCTATGAAAGCTCAGCCGAGCTA 948  
QY 998 TGAGGTACTACTACAAAGCGGAGATCTCTGAAAGGGTGGATGCGCGGAGCTCGTCTACA 1057  
Db 949 TGAGATATTACTACAAAGAGAAATTTCTGGAGCGGTGTGGATGGACGAAGACTGGTATATA 1008  
QY 1058 AGTTTGGCAAAACTCAAGCGGCTGGAAGGAGGAAGA 1094  
Db 1009 AATTGGGAGAGATGCCCGGAGGATGGAGAGAAATGA 1045

RESULT 15  
US-09-009-913-3  
Sequence 3, Application US/09009913  
Patent No. 6087485  
GENERAL INFORMATION:  
APPLICANT: AxyS Pharmaceuticals, Inc.  
TITLE OF INVENTION: Asthma Related Genes  
NUMBER OF SEQUENCES: 339  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bozicevic & Reed, LLP  
STREET: 285 Hamilton Ave, Suite 200  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/009,913

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; FILING DATE: 21-JAN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sherwood, Pamela J
; REGISTRATION NUMBER: 36,677
; REFERENCE/DOCKET NUMBER: SEQ-4P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-327-3231
; TELEFAX: 650-327-3231
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5510 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-09-009-913-3

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Query Match      15.6%; Score 173.8; DB 3; Length 5510;
Best Local Similarity 69.7%; Pred. No. 1.1e-34;
Matches 235; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 758 TGAGCAAGAGTACTGGGACTCTTCGAGGGGCAAGAGAGCAAGCAGCGCCCGAGAGGCA 817
Db      |||
QY 792 TGAAGGAGGAGCAGAGACCCCTGCGCAAGTGCACACCAAAAGCACAACCCGAGAGGGA 851
Db      |||
QY 818 CCCACTGTGGAGTTCATCCGGGACATCCTCATCCACCGGAGCTCAACGAGGGCCTCA 877
Db      |||
QY 852 CTCCTTATGGGANTTCATCCCGACATCCCTTGAACCCAGACAGAACCCAGANTTA 911
Db      |||
QY 878 TCAAGTGGGAGATCGGCATGAGCGGTCTTCAAGTTCTCGGTCCGAGGCTGTGGCCC 937
Db      |||
QY 912 TAAATGGGAGAGCCGATCTGAGGGCGTCTTCAGGTCTTGAATCAGAGGCAGTGGCTC 971
Db      |||
QY 938 AACTATGGGCGCAAGAGAAAGACAGCAATCAGCATCAGAGAGCTGAGCGGGCCA 997
Db      |||
QY 972 AGCTATGGGGTAAAGAGAGAAACAGCAGCATGACCTATGAAAGCTCAGCCGAGCTA 1031
Db      |||
QY 998 TGAGTACTACTACAAACGGGAGATCCTGGAAACGGGTGGATGGCCGGCGACTCGTCTACA 1057
Db      |||
QY 1032 TCAGATATTACTACAAAGAGAAATACTGAGCGGTGGATGGACGAGAGACTGGTATATA 1091
Db      |||
QY 1058 AGTTGGCAAAACTCAAGCGCTGAGAGGAGAGA 1094
Db      |||
QY 1092 AATTTGGGAAGATGCCCGAGGATGGAGAGAAATGA 1128
Db      |||

```

Search completed: February 13, 2004, 01:54:40  
Job time : 65.1925 secs



; CURRENT APPLICATION NUMBER: US/10/097,340  
 ; CURRENT FILING DATE: 2002-03-14  
 ; PRIOR APPLICATION NUMBER: 60/276,025  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/325,149  
 ; PRIOR FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/276,026  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/324,967  
 ; PRIOR FILING DATE: 2001/09/26  
 ; PRIOR APPLICATION NUMBER: 60/311,732  
 ; PRIOR FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: 60/325,102  
 ; PRIOR FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/323,580  
 ; PRIOR FILING DATE: 2001-09-19  
 ; NUMBER OF SEQ ID NOS: 363  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 74  
 ; LENGTH: 1907  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-097-340-74

## Alignment Scores:

Pred. No.: 1.18e-189 Length: 1907  
 Score: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservative: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2  
 DB: 15 Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-10-097-340-74 (1-1907)

Qy 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20  
 Db 99 GCTGCAACCTGTGAGATTAGCAATTTTAGCAACTACTTCAGTCCGATGTACAGCTCG 158  
 Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrLysLeuVal 39  
 Db 159 GAGGATCCACCTCGGCTCTGTTCCTCCCTGCTGCGCCACTTTGGGGCCGATGACTTGGTA 218  
 Qy 40 LeuThrLeuAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerThrThrSer 59  
 Db 219 CTGACCTGAGCAACCCAGATGTCATTGGAGGGGTACAGAGAGCCAGCTGGTGGGG 278  
 Qy 60 GluArgProGlnPheThrSerLysThrGlnValLeuGluThrLysSerThrGlnValGlu 79  
 Db 279 GAACAGCCCGAGTCTGTGTCGAAGACGCGAGTTCTGGACTGGATCAGCTACCAAGTGGAG 338  
 Qy 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99  
 Db 339 AAGACAAAGTACGACGACGCGCATTTCTTCAGATGTGACATGATGGAGCCACC 398  
 Qy 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119  
 Db 399 CTCTGCAATGTGCTCTGAGGAGTCTGCTGCTCTTTGGGCTCTGGGGGACCAACTC 458  
 Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerThrLysLeuGlu 139  
 Db 459 CATTGCCAGCTGGAGACCTTCACTTCAGCTCTTCATGATGAGCTCAGTTGGATTCATTGAG 518  
 Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyPropheAsp 159  
 Db 519 CTGCTGGAGAAGATGTCATGGCTTCCAGAGGCGCTA---GACCCAGGCGCTTTGAC 575  
 Qy 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyr 179  
 Db 576 CAGGGAGCCCCCTTTGCCCCAGGAGCTCTGGAGCGCGGTCTGAGCAAGCCAGCCCTTACCAC 635  
 Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
 Db 636 CCGGCGAGCTGTGGCGCAGGAGCCCCCTCCCTGGCAGCTCTGACGCTCTCCACCGCAGGG 695

Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyLysSerAspValAspLeuAsp 219  
 Db 696 ACTGGTCTTCTCGAGCTCTCCACTCTCTAGACTCCGGTGAAGTACGCTGGACCTGGAT 755  
 Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239  
 Db 756 CCCACTGATGGCAAGCTCTTCCCGCAGCATGGTTCGTGACTGCAAGAGGGGATCC 815  
 Qy 240 LysHisGlyLysArgLysArgProArgLysLeuSerLysGluTyrTrpAspCys 259  
 Db 816 AAGCACGGGAAGCGGAACGAGCGGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT 875  
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279  
 Db 876 CTGAGGGGCAAGAGAGCAGCAGCGCCGAGAGGCCACCCTGTGGGAGTTTCATCCGG 935  
 Qy 280 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 936 GACATCTCTATCCACCGGAGCTCAACGAGGGGCTCATGAAGTGGGAGATCGGCATGA 995  
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
 Db 996 GCGCTCTTCAAGTTCTCGGCTCCGAGGCTGTGCCCCCACTATGGGGCCCAAGAAAAG 1055  
 Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339  
 Db 1056 AACACGAACATGACTACGAGAGAGCTGAGCGGGGCCATGAGGTACTACTACAAACGGAG 1115  
 Qy 340 IleLeuGluArgValAspGlyArgLeuValTyrLysPheGlyLysAsnSerSerGly 359  
 Db 1116 ATCTCGAAGCGGTGGATGGCCGCGGACTGCTCTACAGTTTGGCAAAACTCAAGGGC 1175  
 Qy 360 TrpLysGluGluValGlyGluSerArgAsn 370  
 Db 1176 TGAAGGAGGAAGAGGTTCCTCCAGAGTCCGAAC 1208

## RESULT 2

US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horrigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 ; TITLE OF INVENTION: Sets  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A  
 ; CURRENT FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: Patent in version 3.0  
 ; SEQ ID NO 101  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-964-824A-101

## Alignment Scores:

Pred. No.: 1.19e-189 Length: 1915  
 Score: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservative: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2  
 DB: 10 Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-964-824A-101 (1-1915)

Qy 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20

Db 123 GCTGCAACCTGTGAGATTAGCAACATTTTACCAACTACTTTCAGTGGCATGTACAGCTCG 182  
Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
Db 183 GAGGACTCCACCTGGCCTCTGTTCCCTCTGTCACCACTTTGGGGCGGATGACTTGTGTA 242  
Qy 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerThrSer 59  
Db 243 CTGACCTGAGCAACCCAGATGTCANTGGAGGTTACAGAGAGCCAGCTGGTGGGG 302  
Qy 60 GluArgProGlnPheThrSerLysThrGlnValLeuGluTyrPheSerThrGlnValGlu 79  
Db 303 GAACAGCCCACTGTCGCGAGAGCGAGGTTCTGGACTGATGATCAGTACCAAGTGGAG 362  
Qy 80 LysAsnLysTyAspAlaSerSerLeuAspPheSerA:gcysAsnMetAspGlyAlaThr 99  
Db 363 AAGAACAAGTACGAGCGAAGCCCATGACTTCTCACGATGTGACATGATGGCGCCACC 422  
Qy 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119  
Db 423 CTCTGCAATGTGGCCTTGGAGAGCTGGCTGTGCTTTGGGCTCTGGGGGACCAACTC 482  
Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerThrPheLeuGlu 139  
Db 483 CATGCCAGCTCGAGAGCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTGAG 542  
Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159  
Db 543 CTGCTGGAGAGGATGGATGGCTTCCAGGAGGCCCTTA---GACCCAGGGCCCTTTGAC 599  
Qy 160 GlnGlySerProPheAlaGlnGlnLeuAspAspGlyArgGlnAlaSerProTyrTyr 179  
Db 600 CAGGCGAGCCCTTTGCCAGAGAGTGTGTGACGACGCTGACGAGCGCTGACGAGCCCTTACCAC 659  
Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
Db 660 CCGCGCAGCTGTGGCGCAGGAGCCCTTCCCTGCGAGCTCTGAGCTCTCCACCGCAGG 719  
Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219  
Db 720 ACTGGTCTTCCGAGCTCCCACTTCCAGACTCCGCTGGAAGTACGCTGGATCGAT 779  
Qy 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyrLysLysGlyGluPro 239  
Db 780 CCCACTGATGCGCAAGCTCTTCCAGCGATGCTTTCTGAGTCTGCAAGAGGGGATCCC 839  
Qy 240 LysHisGlyLysArgGlyArgProArgLysLeuSerLysGlyTyrThrAspCys 259  
Db 840 AAGCAGCGGAAGCGGAAACGAGCGCGCCGCGGAAAGCTGAGCAAAAGATCTGGGACTGT 899  
Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTyrGluPheAlaArg 279  
Db 900 CTCGAGGCGCAGAAGAGCAGCAGCGCGCCAGAGCCACCTGTTGGAGTTTATCCGG 959  
Qy 280 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysThrGluAsnArgHisGlu 299  
Db 960 GACATCTCTCATCCACCGGAGCTCAACGAGGCGCTCATGAAGTGGAGATCGGCATGAA 1019  
Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTyrGlyGlnLysLysLys 319  
Db 1020 GCGGCTTCAAGTCTCGCTGCCAGGCTGTGGCCCAACTATGGGGCCAAAGAAAAAG 1079  
Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 339  
Db 1080 AACAGCAACATGACCTACGAGAAGCTGAGCGGGCCATGAGTACTACTACAAACGGGAG 1139  
Qy 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 359  
Db 1140 ATCTGGGAACGGGTGGATGGCGCGGACTCTCTACAAAGTTTGGCAAAATCTAAGCGGC 1199  
Qy 360 TrpLysGluGluGluValGlyLysSerArgAsn 370

Db 1200 TGGAAAGGAGGAGAGAGGTTCTCCAGAGTCGGAAC 1232

## RESULT 3

US-09-964-824A-563  
; Sequence 563, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; TITLE OF INVENTION: Sets  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 593  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 563  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-563

Alignment Scores:  
Pred. No.: 1,19e-189 Length: 1915  
Score: 1707.00 Matches: 322  
Percent Similarity: 92.72% Conservative: 22  
Best Local Similarity: 86.79% Mismatches: 25  
Query Match: 86.21% Indels: 2  
DB: 10 Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-964-824A-563 (1-1915)

Qy 1 AlaAlaThrCysGlnLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20  
Db 123 GCTGCAACCTGTGAGATTAGCAACATTTTACCAACTACTTTCAGTGGCATGTACAGCTCG 182  
Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
Db 183 GAGGACTCCACCTGGCCTCTGTTCCCTCTGTCACCACTTTGGGGCGGATGACTTGTGTA 242  
Qy 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerThrSer 59  
Db 243 CTGACCTGAGCAACCCAGATGTCANTGGAGGTTACAGAGAGCCAGCTGGTGGGG 302  
Qy 60 GluArgProGlnPheThrSerLysThrGlnValLeuGluTyrPheSerThrGlnValGlu 79  
Db 303 GAACAGCCCACTGTCGCGAGAGCGAGGTTCTGGACTGATCAGTACCAAGTGGAG 362  
Qy 80 LysAsnLysTyAspAlaSerSerLeuAspPheSerA:gcysAsnMetAspGlyAlaThr 99  
Db 363 AAGAACAAGTACGAGCGAAGCCCATGACTTCTCACGATGTGACATGATGGCGCCACC 422  
Qy 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119  
Db 423 CTCTGCAATGTGGCCTTGGAGAGCTGGCTGTGCTTTGGGCTCTGGGGGACCAACTC 482  
Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerThrPheLeuGlu 139  
Db 483 CATGCCAGCTCGAGAGCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTGAG 542  
Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159  
Db 543 CTGCTGGAGAGGATGGATGGCTTCCAGGAGGCCCTTA---GACCCAGGGCCCTTTGAC 599  
Qy 160 GlnGlySerProPheAlaGlnGlnLeuAspAspGlyArgGlnAlaSerProTyrTyr 179  
Db 600 CAGGCGAGCCCTTTGCCAGAGAGTGTGTGACGACGCTGACGAGCGCTGACGAGCCCTTACCAC 659

Qy 180 CysSerThrTyrGlyProGluAlaProSerProGlySerSerAspValSerThrAlaArg 199  
 Db 660 CCGCGCAGCTGTGGCGCAGGAGCCCTCCCTGGCAGCTCTGACGCTCCACCGCAGGG 719  
 Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeu 219  
 Db 720 ACTGGTCTCTCGGAGCTCCCACTCTCTGAGCTCCGGTGGAGTACGCTGACCTGGAT 779  
 Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239  
 Db 780 CCCACTGATGCGAGCTCTCCCGCAGCGATGTTTTCGTGACTGCAAGAGGGGATCCC 839  
 Qy 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259  
 Db 840 AAGCACGGGAAGCGGAACAGGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT 899  
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279  
 Db 900 CTCGAGGGCAAGAGAGCAGCAGCGCCCGCAGAGGACCCACCTGTGGAGTTCATCCGG 959  
 Qy 280 AspileuileHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 960 GACATCTCTATCCACCGGAGCTCAACAGGGGCTCATGAAGTGGGAGATCGGCATGAA 1019  
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
 Db 1020 GGCTCTTCAGTTCCTCCGCTCGAGCTGTGGCCCACTATGGGCCCAAGAGAAAG 1079  
 Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339  
 Db 1080 AACAGCAACATGACCTACGAGAGAGCTGAGCGCGGCCCATGAGGTACTACTACAAACGGAG 1139  
 Qy 340 IleLeuGluArgValAspGlyArgGluValTyrLysPheGlyLysAsnSerSergly 359  
 Db 1140 ATCTCTGAACCGGCGGAGTGGCGCGGCTCGTCTACAAAGTTTGGCAAAACTCAAGCGGC 1199  
 Qy 360 TrpLysGluGluGluValGlyGluSerArgAsn 370  
 Db 1200 TGGAGGAGGAGAGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 4

US-09-880-107-3420  
 ; Sequence 3420, Application US/09880107  
 ; Patent No. US20020142981A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horne, Darci T.  
 ; APPLICANT: Vockley, Joseph G.  
 ; APPLICANT: Scherf, Uwe  
 ; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
 ; FILE REFERENCE: 44921-5028-WO  
 ; CURRENT APPLICATION NUMBER: US/09/880,107  
 ; PRIOR FILING DATE: 2001-06-14  
 ; PRIOR APPLICATION NUMBER: US 60/211,379  
 ; PRIOR FILING DATE: 2000-06-14  
 ; PRIOR APPLICATION NUMBER: US 60/237,054  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 3950  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3420  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843

US-09-880-107-3420

Alignment Scores:  
 Pred. No.: 1,19e-189 Length: 1915  
 Scores: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservative: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2

DB: 10 Gaps: 2  
 US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-880-107-3420 (1-1915)  
 Qy 1 AlaAlaThrCysGluLysSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20  
 Db 123 GCTCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTACGTGGATGATGACGCTCG 182  
 Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
 Db 183 GAGGACTCCACCCCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTA 242  
 Qy 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59  
 Db 243 CTGACCTCTGAGCAACCCCGCAGATGTCTATGGAGGGTACAGAGAGGCGCAGCTGGTGGGG 302  
 Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTyrGlnValGlu 79  
 Db 303 GAACAGCCCCAGTTCCTGTGCAAGACGAGGTTCTGGATGGATCAGTACCAAGTGGAG 362  
 Qy 80 LysAsnLysTyrAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99  
 Db 363 AAGAACCAAGTACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 422  
 Qy 100 LeuCysSerCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeu 119  
 Db 423 CTCTGCAATTTGTCCTTGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 482  
 Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysLeuGlu 139  
 Db 483 CATGCCAGCTGCGAGACCTCCTCCAGGAGTCTTCTGATGAGTCTGATGAGTCTGATGAG 542  
 Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159  
 Db 543 CTCTGGAAGAGGATGGCCTTCCAGAGGCCCCCTCCCTGCGAGCTCTGACGCTCTCCACGAGGG 599  
 Qy 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyr 179  
 Db 600 CAGGCGAGCCCCCTTCCAGGAGTCTGCTGCAAGCGTCCAGCAAGCGACGCCCTTACCAC 659  
 Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerSerSerSerSerSerSer 199  
 Db 660 CCGCGCAGCTGTGGCGCAGGAGCCCCCTCCCTGCGAGCTCTGACGCTCTCCACGAGGG 719  
 Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219  
 Db 720 ACTGTGCTTCTCGGAGCTCCCACTCTCAGACTCCGCTGCAAGTACGCTGACCTGAT 779  
 Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239  
 Db 780 CCCACTGATGCAAGCTCTTCCCGCAGGATGGTTCCTGCTGACTGCAAGAGGGGATCCC 839  
 Qy 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyrTrpAspCys 259  
 Db 840 AAGCACGGGAAGCGGAACAGGCGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT 899  
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279  
 Db 900 CTCGAGGGCAAGAGAGCAGCAGCGCCCGCAGAGGACCCACCTGTGGAGTTCATCCGG 959  
 Qy 280 AspileuileHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 960 GACATCTCTATCCACCGGAGCTCAACAGGGGCTCATGAAGTGGGAGATCGGCATGAA 1019  
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
 Db 1020 GGCTCTTCAGTTCCTCCGCTCGAGCTGTGGCCCACTATGGGCCCAAGAGAAAG 1079  
 Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339  
 Db 1080 AACAGCAACATGACCTACGAGAGAGCTGAGCGCGGCCCATGAGGTACTACTACAAACGGAG 1139  
 Qy 340 IleLeuGluArgValAspGlyArgGluValTyrLysPheGlyLysAsnSerSergly 359

Db 1140 ATCTCTGGAACGGTGGATGGCGGCGAGCTCGTCTACAGATTTCGCAAAACTCAAGCGGC 1199  
Qy 360 TPLYSGLUGLUGLUVALGLYGLUSERARGASN 370  
Db 1200 TGGAGGAGGAGAGAGGTTCTCCAGATCGGAAC 1232  
RESULT 5  
US-09-967-768A-192  
; Sequence 192, Application US/09967768A  
; Patent No. US20020150877A1  
; GENERAL INFORMATION:  
; APPLICANT: Augustus, Meena  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signature  
; FILE OF INVENTION: Sets  
; FILE REFERENCE: 689290-72  
; CURRENT APPLICATION NUMBER: US/09/967,768A  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,109  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,034  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,111  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 325  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 192  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-967-768A-192  
Alignment Scores:  
Pred. No.: 1.19e-189 Length: 1915  
Score: 1707.00 Matches: 322  
Percent Similarity: 92.72% Conservative: 22  
Best Local Similarity: 86.79% Mismatches: 25  
Query Match: 86.21% Indels: 2  
DB: 10 Gaps: 2  
US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-967-768A-192 (1-1915)  
Qy 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20  
Db 123 GCTGCAACCTGTGAGATTAGCACATTTTATGCAACTACTTCACTGGCGATGTACAGCTCG 182  
Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
Db 183 GAGGACTCCACCTGGCCCTCTGTTCCCTCTGCTGCCACCTTTGGGGCGGATGACTTGGTA 242  
Qy 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLysAlaSerThrSer 59  
Db 243 CTGACCTTGAGCAACCCCGAGATGTCATGGAGGTACAGAGAAGCCAGCTGTTGGGG 302  
Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTyrGlnValGlu 79  
Db 303 GAACAGCCCCAGTTCTGGTCGAAGACGACGAGTTCTGGACTGGATCAGTCACTCAAGTGGAG 362  
Qy 80 LysAsnLysTyrAspAlaSerSerLysPheSerArgCysAsnMetAspGlyAlaThr 99  
Db 363 AGAACAAAGTACGACGCAAGCGCCATTGACTTTCACGATGTGATGGATGGCGCCACC 422  
Qy 100 LeuCysSerCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeu 119  
Db 423 CTCTGCAATTGTGCCCTTGAGAGCTGGTCTGTGCTTTGGGCTCTGGGGACCACTC 482  
Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysLeuGlu 139  
Db 483 CATGCCAGCTCGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAG 542  
Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnSerLeuGlyAspLeuGlyProPheAsp 159  
Db 543 CTGCTGGAGAGGATGGATGGCTTCCAGGAGGCCCTA---GACCCAGGCGCCCTTTGAC 599

Qy 160 GlnGlySerProPheAlaGlnLeuLeuAspAspGlyArgGlnAlaSerProTyrTyr 179  
Db 600 CAGGGCAGCCCTTTGCCAGGAGGCTGCTGGACGAGCTGTCAGCAAGCAGCCCTTACCAC 659  
Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
Db 660 CCGGCGAGCTGTGGCGCAGGAGCCCTCCCTGCGAGCTCTGACGTCTCCACCGCAGG 719  
Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219  
Db 720 ACTGTGCTTCTCGGAGCTCCACCTCCAGACTCCGCTGGAGAGTGAGCTGACCTGGAT 779  
Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239  
Db 780 CCCACTGATGGCAAGCTCTTCCCGAGGATGTTTTCGTGACTGCAAGAGGGGATCCC 839  
Qy 240 LysHisGlyLysArgLysArgProArgProArgLysLeuSerLysGluTyrTrpAspCys 259  
Db 840 AAGCAGCGGAGCGAAACGAGCGCGCCGCGGAGCTGAGCAAAAGCTGAGCAAAAGTACTGGAGCTGT 899  
Qy 260 LeuGluGlyLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279  
Db 900 CTCGAGGGCAAGAGAGCAGCAGCGCCGAGAGCAGCCACCTGTGGAGTTCTATCCGG 959  
Qy 280 AspileLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
Db 960 GACATCTCATCCACCGGAGCTCAACGAGGCGCTCATGAGTGGGAGAAATCGGCATGAA 1019  
Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
Db 1020 GCGCTTCTCAAGTTCTGCGCTCCGAGGCTGCGCCCAACTATGGGGCCAAAGAAAAG 1079  
Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrLysArgGlu 339  
Db 1080 AACAGCAACATGACCTACGAGAAGCTGAGCGGGCCATGAGGTACTACTACAAACGGGAG 1139  
Qy 340 IleLeuGluArgValAspGlyArgLeuValTyrLysPheGlyLysAsnSerSerGly 359  
Db 1140 ATCTCTGGAACGGTGGATGGCGGCGACTCGCTCAAGTTTGGCAAAACTCAAGCGGC 1199  
Qy 360 TrpLysGluGluGluValGlyGluSerArgAsn 370  
Db 1200 TGGAGGAGGAGAGAGGTTCTCCAGATCGGAAC 1232  
RESULT 6  
US-09-922-217-1105  
; Sequence 1105, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1105  
; LENGTH: 1917  
; TYPE: DNA  
; ORGANISM: Homo sapiens

US-09-922-217-1105

## Alignment Scores:

Pred. No.: 119e-189 Length: 1917  
 Score: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservations: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2  
 DB: Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-922-217-1105 (1-1917)

Qy 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20  
 Db 125 GCTGCAACCTGTGAGATTAGCAACATTTTACCACTTCTCAGTGGCGATGACAGCTCG 184  
 Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
 Db 185 GAGGACTCCACCTGGCCCTGTTCCTCCCTGTGCGCCACCTTTGGGGCCGATGACTTGGTA 244  
 Qy 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLeuLysAlaSerThrThrSer 59  
 Db 245 CTGACCTGAGCAACCCAGATGCTATGGAGGGTACAGAGAGGCGACGCTGTTGGGG 304  
 Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerThrGlnValGlu 79  
 Db 305 GAACAGCCCGCAGTTCTGCTGAAAGAGCGAGTCTCTGGACTGGATCAGCTACCAAGTGGAG 364  
 Qy 80 LysAsnLysTrpAspAlaSerSerLysPheSerArgCysAsnMetAspGlyAlaThr 99  
 Db 365 AAGAACAGTACGACGCGACGCGCATTTGCTTCTCAGATGTGACATGGATGGCGCCACC 424  
 Qy 100 LeuCysSerCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119  
 Db 425 CTCTGCAATTTGCCCTTGAGAGCTCGCTCTGCTCTTTGGGCTCTGGGGGACCAACTC 484  
 Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpLysLeuGlu 139  
 Db 485 CATCCCGAGCTGGAGACCTCAGCTTCAGCTCTTCTGATGAGTCTAGTGGATCATTTAG 544  
 Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyPropheAsp 159  
 Db 545 CTGCTGGAAGAGTATGCTGCTGCTCCAGAGGCGCCTA---GACCCAGGGCCCTTTGAC 601  
 Qy 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyrTyr 179  
 Db 602 CAGGGCAGCCCTTTGCGCAGAGCTGCTGAGCAGCGTACAGAGCCAGCCCTTACCAC 661  
 Qy 180 CysSerThrTyrGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
 Db 662 CCCGGCAGCTGTGCGCAGAGGCGCCCTCCCTGGCAGCTCTGACGCTCTCCACCGCAGGG 721  
 Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyCysSerAspValAspLeuAsp 219  
 Db 722 ACTGGTGTCTTCGAGGCTCCCTCCTCAGACTCCCGTGGAGTACGCTGGACCTGGAT 781  
 Qy 220 LeuThrGluSerLysValPheProArgAspPheThrAspTyrLysLysGlyGluPro 239  
 Db 782 CCCACTGATGCAAGCTCTTCCCGAGGATGTTTCTGCTGACTGCAAGAGGGGGATCCC 841  
 Qy 240 LysHisGlyLysArgLysArgGlyArgProArgLysLysLeuSerLysGluTyrTrpAspCys 259  
 Db 842 AAGCACGGGAAGCGAAACGAGGCGCGCCCGAAGCTGAGCAAGAGTACTCGGACTGT 901  
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279  
 Db 902 CTCGAGGGCAAGAGAGCAACAGCGCGCCAGAGGACCCACCTGTGGAGTTCATCCGG 961  
 Qy 280 AspLeuLeuHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 962 GACATCCTCATCCACCCCGAGCTCAACGAGGCGCTCATGAAGTGGGAGATCGCATGAA 1021  
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 319

Db 1022 GCGCTCTTCAAGTTCTTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAGAAAAG 1081  
 Qy 320 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 339  
 Db 1082 AACAGCAACATGACCTACGAGAGAGCTGAGCGGGCCATGAGGTACTACTACAAACGGAG 1141  
 Qy 340 IleLeuGluArgValAspGlyArgArgLeuValTyrLysPheGlyLysAsnSerSerGly 359  
 Db 1142 ATCTGGAACGGGTGGATGGCGCGACTGCTCTACAGTTTGGCAAAACTCAAGCGGC 1201  
 Qy 360 TrpLysGluGluGlnValGlyGluSerArgAsn 370  
 Db 1202 TGAAGGAGGAAGAGGTCTTCCAGAGTCGGAAC 1234

## RESULT 7

US-10-025-380-1105  
 ; Sequence 1105, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick Thomas S.  
 ; APPLICANT: Carter, Patrick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19  
 ; NUMBER OF SEQ ID NOS: 1129  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1105  
 ; LENGTH: 1917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-025-380-1105

## Alignment Scores:

Pred. No.: 119e-189 Length: 1917  
 Score: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservations: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2  
 DB: Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-10-025-380-1105 (1-1917)

Qy 1 AlaAlaThrCysGluLeuSerAsnValPheSerAsnTyrPheAsnAlaMetTyrSerSer 20  
 Db 125 GCTGCAACCTGTGAGATTAGCAACATTTTACCACTTCTCAGTGGCGATGACAGCTCG 184  
 Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
 Db 185 GAGGACTCCACCTGGCCCTGTTCCTCCCTGTGCGCCACCTTTGGGGCCGATGACTTGGTA 244  
 Qy 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLysAlaSerThrThrSer 59  
 Db 245 CTGACCTGAGCAACCCAGATGCTATGGAGGGTACAGAGAGGCGACGCTGTTGGGG 304  
 Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerThrGlnValGlu 79



305 GAACAGCCCGAGTTCTGGTCGAGAGCCAGGTTCTGGAGTCAGTACAGTACCAAGTGGAG 364  
 QY 80 LysAsnLysTyAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99  
 Db 365 AAGACACAGTAGACCAAGCCCATTTGCTCTCAGCATGACATGATGGGCCAC 424  
 QY 100 LeuCysSerCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeu 119  
 Db 425 CTCTGCAATGTGCTCTGAGGAGTGGCTGGTCTTGGGCTCTGGGGACCAACTC 484  
 QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeu 139  
 Db 485 CATGCCACAGCTGGAGACCTCACTTCCAGCTCTCTGAGAGCTCAGTTGATCATTCAG 544  
 QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAsp 159  
 Db 545 CTGCTGGAGAGGATGGCATGCCCTTCCAGAGAGCCCTA--GACCCAGGGCCCTTTCAC 601  
 QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspGlyArgGlnAlaSerProTyTrp 179  
 Db 602 CAGGCGAGCCCTTTGCCAGAGAGTGTCTGGACGAGCTCAGCAAGCCAGGCCCTTACCAC 661  
 QY 180 CysSerThrTyTrpGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
 Db 662 CCGCGAGCTGTGGCGCAGAGCCCTTCCCTGGAGCTCTGAGCTCTCCACCGCAGGG 721  
 QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219  
 Db 722 ACTGTGTCTCTCGGAGCTTCCCACTCTCAGACTCCGCTGGAGTGGAGTGGAGTGGAGT 781  
 QY 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyLysLysGlyGluPro 239  
 Db 782 CCCACTGATGGCAAGCTCTTCCCGAGGATGTTTCTGTGACTGCAAGAGGGGATCCC 841  
 QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyTrpAspCys 259  
 Db 842 AAGCAGCGGAAGCGGAAGAGCGAGCGCGCCCGGAAAGCTGAGCAAGAGTACTTGGAGCTGT 901  
 QY 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheLeuArg 279  
 Db 902 CTCGAGGGCAAGAGAGAGCAGCAGCGCCCGAGAGCCCACTCTGGGAGTTCATCCGG 961  
 QY 280 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 962 GACATCTCATCCACCGGAGCTCAACGAGGCGCTCATGAAGTGGAGATCGGATGAA 1021  
 QY 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
 Db 1022 GCGCTCTTCAAGTCTCTCGCTCCGAGGCTGGGCGCAACTATGGGGCCAAAGAAAG 1081  
 QY 320 AsnSerAsnMetThrTyTrpGluLysLeuSerArgAlaMetArgTyTrpTyTrpLysArgGlu 339  
 Db 1082 AACAGCAACATGACCTACGAGAGCTGAGCGGGCCATGAGGTACTACTACAAAGGGAG 1141  
 QY 340 IleLeuGluArgValAspGlyArgLeuValTyLysPheGlyLysAsnSerSerGly 359  
 Db 1142 ATCTGGAAACGGGTGATGGCGGGGACTCGTCTCAAGTTTGGCAAAATCTCAAGCGGC 1201  
 QY 360 TrpLysGluGluGluValGlyGluSerArgAsn 370  
 Db 1202 TGGAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 1234

## RESULT 8

US-10-264-049-756  
 ; Sequence 756, Application US/10264049  
 ; Publication No. US20040005579A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Birse et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: PA133P1  
 ; CURRENT APPLICATION NUMBER: US/10/264,049  
 ; CURRENT FILING DATE: 2002-10-04  
 ; PRIOR APPLICATION NUMBER: PCT/US01/18569

; PRIOR FILING DATE: 2001-06-07  
 ; PRIOR APPLICATION NUMBER: US 60/209,467  
 ; PRIOR FILING DATE: 2000-06-07  
 ; NUMBER OF SEQ ID NOS: 4360  
 ; SOFTWARE: PatentIn Ver. 3.1  
 ; SEQ ID NO 756  
 ; LENGTH: 1956  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-264-049-756  
 Alignment Scores:  
 Pred. No.: 1,23e-189 Length: 1956  
 Score: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservative: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2  
 DB: 12 Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-10-264-049-756 (1-1956)

QY 1 AlaAlaThrCysGluIleSerAsnValPheSerAsnTyTrpPheAsnAlaMetTyTrpSer 20  
 Db 164 GCTGCAACCTGTGAGATTAGCACTTTTGGCACTACTTTCAGTGGCATGTACAGCTCG 223  
 QY 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
 Db 224 GAGGACTCCACCTGGCCCTCTGTTCCTCTGCTGCCACCTTTGGGCCCGATGACTTGTGA 283  
 QY 40 LeuThrLeuAsnAsnGlnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59  
 Db 284 CTGACCTCTGAGCAACCCCGACAGATGCTTGGAGGGTACAGAGAGCCAGCTGTGTGGGG 343  
 QY 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpIleSerTyTrpGlnValGlu 79  
 Db 344 GAACAGCCCGAGTCTGTGTCGAAGCGCAGGTCTGAGTGGATCAGCTACCAAGTGGAG 403  
 QY 80 LysAsnLysTyTrpAspAlaSerSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99  
 Db 404 AAGACAAAGTACCAAGCAAGCGCCATGACTTCTCAGATGTGACATGATGGCGCCACC 463  
 QY 100 LeuCysSerCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeu 119  
 Db 464 CTCTGCAATTTGGCCCTTTCAGGAGCTGCTGTGCTTTTGGGCTCTGGGGACCAACTC 523  
 QY 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleLeuGlu 139  
 Db 524 CATGCCACAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAG 583  
 QY 140 LeuLeuGluLysAspGlyMetSerPheGlnGluSerLeuGlyAspLeuGlyProPheAsp 159  
 Db 584 CTGCTGGAGAGGATGGCATGGCTTCCAGAGGGCCCTA--GACCCAGGGCCCTTTGAC 640  
 QY 160 GlnGlySerProPheAlaGlnGluLeuLeuAspAspGlyArgGlnAlaSerProTyTrp 179  
 Db 641 CAGGCGAGCCCTTTTCCAGGAGCTGTCTGGACGAGCTGTCAGCAAGCTCAGCAAGCCAGCCCTTACCAC 700  
 QY 180 CysSerThrTyTrpGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
 Db 701 CCGGCGAGCTGTGGCGCAGAGCCCTTCCCTGGAGCTCTGAGCTCTCCACCGAGGG 760  
 QY 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219  
 Db 761 ACTGTGTCTTCGAGACTCCCACTCTCAGACTCCGCTGGAGTGGAGTGGAGTGGAT 820  
 QY 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTyLysLysGlyGluPro 239  
 Db 821 CCACACTGATGGCAAGCTCTTCCCGAGGATGTTTCTGTGACTGCAAGAGGGGGATCCC 880  
 QY 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTyTrpAspCys 259  
 Db 881 AAGCAGCGGAAGCGGAAGAGCGCGCCCGCCCGAAGCTGAGCAAGAGTACTTGGGAGCTGT 940

Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279  
 Db 941 CTCGAGGCGCAAGAGAGCAAGCAGCGCCAGAGGACACCCACCTGTGGAGTTTCATCGG 1000  
 Qy 280 AspileLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 1001 GACATCTCATCCACCGGAGCTTAACGAGGGCTTATGAAGTGGAGATCGGCATGAA 1060  
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
 Db 1061 GCGCTCTCAAGTTCTCGGTCCGAGGCTGTGCGCCCACTATGGGCGCCAAAGAAAG 1120  
 Qy 320 AsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGlu 339  
 Db 1121 AACAGCAACATGACCTACGAGAGCTGAGCGCGCCATGAGGTACTACTACAAACGGAG 1180  
 Qy 340 IleLeuGluArgValAspGlyArgGluValTrpLysPheGlyLysAsnSerSerGly 359  
 Db 1181 ATCTTGAACGGGTGGATGCGCGGCGACTCGTCTACAGTTTGGCAAAACTCAAGCGG 1240  
 Qy 360 TrpLysGluGluValGlyGluSerArgAsn 370  
 Db 1241 TGGAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 1273

## RESULT 9

US-09-925-301-207  
 ; Sequence 207, Application US/09925301  
 ; Patent No. US20020052308A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: P106  
 ; CURRENT APPLICATION NUMBER: US/09/925,301  
 ; CURRENT FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1694  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 207  
 ; LENGTH: 1996  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-925-301-207

## Alignment Scores:

Pred. No.: 1.26e-189 Length: 1996  
 Score: 1707.00 Matches: 322  
 Percent Similarity: 92.72% Conservative: 22  
 Best Local Similarity: 86.79% Mismatches: 25  
 Query Match: 86.21% Indels: 2  
 Gaps: 2

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-925-301-207 (1-1996)

Qy 1 AlaAlaThrCysGluIleSerAsnValPheSerAsnTrpPheAsnAlaMetTrpSer 20  
 Db 144 GCTGCAACCTGTGAGATTAGCAACATTTTAGCAACTACTTCAGTGGATGTACAGCTG 203  
 Qy 21 GluAspProThrLeuAlaProAlaProPro---ThrThrPheGlyThrGluAspLeuVal 39  
 Db 204 GAGACTCCACCTCGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGCGGATGATGGTA 263  
 Qy 40 LeuThrLeuAsnAsnGlnMetThrLeuGluGlyProGluLysAlaSerTrpThrSer 59  
 Db 264 CTGACCTGAGCAACCCAGATGTCATTGGAGGTACAGAGGCCAGCTGGTGGGG 323  
 Qy 60 GluArgProGlnPheTrpSerLysThrGlnValLeuGluTrpLysSerTrpGlnValGlu 79  
 Db 324 GAACAGCCCCAGTTCTGTGTCAGACGCGAGTCTGAGTGGATCAGTACCAAGTGGAG 383  
 Qy 80 LysAsnLysTrpAspAlaSerIleAspPheSerArgCysAsnMetAspGlyAlaThr 99

Db 384 AAGAACAGTACGACGCAAGCGCCATTGACTTCTCAGATGTGACATGATGCGCCACC 443  
 Qy 100 LeuCysSerCysAlaLeuGluGluArgLeuValPheGlyProLeuGlyAsnGlnLeu 119  
 Db 444 CTCTGCAATGTGCCCCCTTGAGGAGCTGGCTGTGCTTTGGGCTCTTGGGGACCACTC 503  
 Qy 120 HisAlaGlnLeuArgAspLeuThrSerAsnSerSerAspGluLeuSerTrpIleGlu 139  
 Db 504 CATGCCAGCTGCGAGACCTCATTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTAG 563  
 Qy 140 LeuLeuGluLysAspGlyMetSerPheGlnGlnSerLeuGlyAspLeuGlyProPheAsp 159  
 Db 564 CTGTGGAGAGAGTGGCATGGCTTCCAGAGGCCCTA---GACCCAGGCGCCCTTTGAC 620  
 Qy 160 GlnGlySerProPheAlaGlnGluLeuAspGlyArgGlnAlaSerProTrpTrp 179  
 Db 621 CAGGCGACCCCTTTGCCAGGAGCTGCTGACGACGCTCAGCAAGCCAGCCCCCTACCAC 680  
 Qy 180 CysSerThrTrpGlyProGlyAlaProSerProGlySerSerAspValSerThrAlaArg 199  
 Db 681 CCCGCGACCTGTGGCGCAGGAGCCCTCCCTCCCTGCGAGCTCTGACGCTCCACCGCAGG 740  
 Qy 200 ThrAlaThrProGlnSerSerHisAlaSerAspSerGlyGlySerAspValAspLeuAsp 219  
 Db 741 ACTGGTCTTCTCGAGCTCCCACTCTCAGCTCCGTTGGAAGTGAAGTGGACCTGGAT 800  
 Qy 220 LeuThrGluSerLysValPheProArgAspAspPheThrAspTrpLysLysGlyGluPro 239  
 Db 801 CCCACTGATGCAAGCTCTTCCCGAGCGATGGTTTCTGCTGACTGCAAGAGGGGATATCCC 860  
 Qy 240 LysHisGlyLysArgLysArgGlyArgProArgLysLeuSerLysGluTrpAspCys 259  
 Db 861 AAGCAGCGGAGCGAAGAACGAGCGCGCCCGAAGCTGAGCAAGAGTACTGGGATGT 920  
 Qy 260 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 279  
 Db 921 CTCGAGGCGCAAGAGAGAGCAGCAGCGCCAGAGGACCCACCTGTGGAGTTTCATCCGG 980  
 Qy 280 AspileLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 299  
 Db 981 GACATCTCATCCACCGCGAGCTCAACGAGGCGCTCATGAAGTGGAGATCGGCATGAA 1040  
 Qy 300 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLys 319  
 Db 1041 GCGCTCTTCAAGTTCTCGCTCCGAGGCTGTGCGCCCACTATGGGCGCCAAAGAAAG 1100  
 Qy 320 AsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArgTrpTrpLysArgGlu 339  
 Db 1101 AACAGCAACATGACCTACGAGAGCTGAGCGGCGCCATGAGGTACTACTACAAACGGAG 1160  
 Qy 340 IleLeuGluArgValAspGlyArgGluValTrpLysPheGlyLysAsnSerSerGly 359  
 Db 1161 ATCTTGAACGGGTGGATGCGCGGCGACTCGTCTACAGTTTGGCAAAACTCAAGCGG 1220  
 Qy 360 TrpLysGluGluValGlyGluSerArgAsn 370  
 Db 1221 TGGAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 1253

## RESULT 10

US-10-131-410-64  
 ; Sequence 64, Application US/10131410  
 ; Publication No. US20030235915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SPECHT, THOMAS  
 ; APPLICANT: HINZMANN, BERND  
 ; APPLICANT: SCHMITT, ARMIN  
 ; APPLICANT: PILARSKI, CHRISTIAN  
 ; APPLICANT: DAHL, EDGAR  
 ; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST TUMORS  
 ; TITLE OF INVENTION: TUMORS  
 ; FILE REFERENCE: SCH-1763

; CURRENT APPLICATION NUMBER: US/10/131.410  
 ; CURRENT FILING DATE: 2002-04-25  
 ; PRIOR APPLICATION NUMBER: 09/646,673  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908  
 ; PRIOR FILING DATE: 1999-03-19  
 ; NUMBER OF SEQ ID NOS: 202  
 ; SOFTWARE: Patent in Ver. 2.1  
 ; SEQ ID NO 64  
 ; LENGTH: 2269  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-131-410-64

## Alignment Scores:

Pred. No.: 2,05e-160 Length: 2269  
 Score: 1458.50 Matches: 281  
 Percent Similarity: 93.71% Conservative: 17  
 Best Local Similarity: 88.36% Mismatches: 19  
 Query Match: 73.66% Indels: 3  
 DB: 12 Gaps: 1

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-10-131-410-64 (1-2269)

QY	53	GlulysAlaSerThrTrpSerGluArgProGlnPheThrSerLysThrGlnValLeuGlu	72
Db	15	GAGAGGCCAGCTGGTGGGGGACAGCCCGCCAGTTCTGGTCGAGAG-CAGGTTCTGGAC	73
QY	73	TrpLysThrGlnValGluLysAsnLysThrAspAlaSerSerLysLeuAspPheArg	92
Db	74	TGGATCAGCTACCAAGTGGAGAGAACCAAGTACGACGCAAGCCCATTCCTCTCACGA	133
QY	93	CysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeuArgLeuValPhe	112
Db	134	TGTACATGATGGCGCCACCTCTGCAATGTGGCCCTTGAGGAGTGGCTGTGGCTTT	193
QY	113	GlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSerAsp	132
Db	194	GGGCTCTGGGGACCAACTCCATGCTCCAGCTCGAGAGCTCACTCCAGCTCTTCGAT	253
QY	133	GlulysSerTrpLysLeuGluLeuGluLysAspGlyMetSerPheGlnGluSerLeu	152
Db	254	GAGCTCAGTTGGATCATGTAGCTGCTGGAGAGATGGCATGGCCCTTCCAGGAGGCCCTA	313
QY	153	GlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAspGly	172
Db	314	---GACCCAGGGCCCTTTGACAGGGCAGCCCTTTGCCAGAGAGTGTGGACGAGGT	370
QY	173	ArgGlnAlaSerProTyrCysSerThrThrGlyProGlyAlaProSerProGlySer	192
Db	371	CAGCAAGCCAGCCCTTACCAACCCCGGCGAGCTGTGGCGCAGGAGCCCTCCCTTGGCAGC	430
QY	193	SerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSerGly	212
Db	431	TCTGACCTCTCCACCGC-AGGATGTGGTGTCTCGGAGCTCCCACTCCCTCAGACTCCGT	489
QY	213	GlySerAspValAspLeuLeuThrGluSerLysValPheProArgAspAspPheThr	232
Db	490	GGAAGTCACTGGACCTGGATCCCATCTGATGGCAAGCTCTTCCCGCAGCATGTTTCT	549
QY	233	AspTyrLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArgLysLeu	252
Db	550	GACTGCAAGAGGGGGATCCCAAGCAGCGGAGAACCGGAAACGAGCGCGCCCGGAAAGCTG	609
QY	253	SerLysGluTyrTrpAspCysLeuGluGlyLysSerLysHisAlaProArgGlyThr	272
Db	610	AGCAAGAGTACTGGGACTCTCTCGAGGGCAAGAGAGCAAGCAGCGCCGAGGACACC	669
QY	273	HisLeuTrpGluPheLeuArgAspLysLeuHisProGluLeuAsnGluGlyLeuMet	292
Db	670	CACCTGGGAGTTTCATCCGGGACATCTCATCCACCGGAGCTCAACGAGGCGCTCATG	729
QY	293	LysTrpGluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGln	312

Db	730	AAGTGGGAGATCGCATGAGGCGTCTTCAAGTTCCTCGGCTCGAGGCTGTGCCCAA	789
QY	313	LeuTrpGlyGlnLysLysLysAsnSerAsnMetThrTyrGluLysLeuSerArgAlaMet	332
Db	790	CTATGGGGCCAAAAGAAAAGAACAGCAACATGACCTACGAGAAAGCTGAGCGGGCCATG	849
QY	333	ArgTyrTyrLysArgGluLeuLeuValAspGlyValAspGlyArgGluValTyrLys	352
Db	850	AGTACTACTACAAACGGGAGATCTGGAACGGGTGGTGGCGCGGACTCGTCTACAG	909
QY	353	PheGlyLysAsnSerSerGlyTrpLysGluGluValGlyGluSerArgAsn	370
Db	910	TTTGGCAAAACTCAAGCGGCTGGAAGGAGGAGGTTCTCCAGAGTCGGGAC	963

## RESULT 11

US-09-922-217-853/C  
 ; Sequence 853...Application US/09922217  
 ; Patent No. US20020076414A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922,217  
 ; CURRENT FILING DATE: 2001-08-03  
 ; NUMBER OF SEQ ID NOS: 1124  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 853  
 ; LENGTH: 626  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-922-217-853

## Alignment Scores:

Pred. No.: 4.34e-99 Length: 626  
 Score: 928.50 Matches: 174  
 Percent Similarity: 90.91% Conservative: 16  
 Best Local Similarity: 83.25% Mismatches: 18  
 Query Match: 46.89% Indels: 1  
 DB: 9 Gaps: 1

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-922-217-853 (1-626)

QY	51	GlyProGluLysAlaSerTrpThrSerGluArgProGlnPheThrSerLysThrGlnVal	70
Db	624	GCTACAGAGAGGCCAGCTGGTGGGGGAAACAGCCCGCTTGTGTCGAGAGCGAGTT	565
QY	71	LeuGluTrpLysSerTyrGlnValGluLysAsnLysThrAspAlaSerSerLysAspPhe	90
Db	564	CTGACTGGATCAGCTACCAAGTGGAGAGAACAGTACAGCAAGCGCATTTGACTTC	505
QY	91	SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluLeuArgLeu	110
Db	504	TCACGATGTGACATGGATGGCGCCACCCTCTGCAATTTGCTTGTGAGGAGCTGGCTG	445
QY	111	ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer	130
Db	444	GTCTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTGGAGACCTCACTTCAGCTCT	385
QY	131	SerAspGluLeuSerTrpLysLeuGluLeuGluLysAspGlyMetSerPheGlnGlu	150

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Db 384 TCTGATGAGCTCAGTTCGATTCATTGAGCTGCTGGAGAGGATGCGATGGCTCCACGAG 325
Qy 151 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAsp 170
Db 324 GCCCTA---GACCCAGGGCCCTTTGACACAGGGCAGCCCTTTGCCAGGAGCTGCTGGAC 268
Qy 171 AspGlyArgGlnAlaSerProTyrCysSerThrTyrGlyProGlyAlaProSerPro 190
Db 267 GACGGTTCAGCAGCAGCCCTTACACCCCGCAGCTGTGGCGCAGGAGCCCTCCCCC 208
Qy 191 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 210
Db 207 GCGAGCTCTGAGCTCTCCACCGCAGGAGCTGTGCTCTCGAGCTCCCACTCTCAGAC 148
Qy 211 SerGlyGlySerAspValAspLeuThrGluSerLysValPheProArgAspAsp 230
Db 147 TCCGGTGGAGTGCAGCTGATCCCACTGATGGCAAGCTCTTCCCGCAGGATGGT 88
Qy 231 PheThrAspTyrLysGlyGluProLysHisGlyLysArgLysArgLysArgProArg 250
Db 87 TTTTGTGACTGCAAGAGGGGGATCCCAAGCAGCGAAGCGAAACGAGGCCGCCCGG 28
Qy 251 LysLeuSerLysGluTyrTyrAspCys 259
Db 27 AAGCTGAGCAAGAGTACTGGGACTGT 1

RESULT 12
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

Alignment Scores:
Pred. No.: 4,34e-99 Length: 626
Score: 928.50 Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.89% Indels: 1
DB: 10 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-09-833-263-853 (1-626)

Qy 51 GlyProGluLysAlaSerThrTyrSerGluArgProGlnPheThrSerLysThrGlnVal 70
Db 624 GGTACAGAGAGAGCCAGCTGTGGGGACAGCCCGAGTTCGTGTCGAGAGCGAGGT 565
Qy 71 LeuGluThrPheSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPhe 90
Db 564 CTGGAGTGGATCAGTACCAAGTGGAGAAACAAAGTACGACGCAAGCCATTCGATTC 505
Qy 91 SerArgCysAsnMetAspGlyAlaThrLeuGlyCysSerCysAlaLeuGluGluLeuArgLeu 110
Db 504 TCACGATGTGACATGGATGGCGCACCTCTGCAATGTGCCCTTTGAGGAGCTGGCTCTG 445
Qy 111 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 130
Db 444 GTCTTTGGGCTCTCTGGGGGACCACTCCATGCCAGCTGCGAGACCTCACTTCCAGTCT 385

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Qy 131 SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 150
Db 384 TCTGATGAGCTCAGTTCGATTCATTGAGCTGCTGGAGAGGATGCGATGGCTTCACGAG 325
Qy 151 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAsp 170
Db 324 GCCCTA---GACCCAGGGCCCTTTGACACAGGGCAGCCCTTTGCCAGGAGCTGCTGGAC 268
Qy 171 AspGlyArgGlnAlaSerProTyrCysSerThrTyrGlyProGlyAlaProSerPro 190
Db 267 GACGGTTCAGCAGCAGCCCTTACACCCCGCAGCTGTGGCGCAGGAGCCCTCCCCC 208
Qy 191 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 210
Db 207 GCGAGCTCTGAGCTCTCCACCGCAGGAGCTGTGCTCTCGAGCTCCCACTCTCAGAC 148
Qy 211 SerGlyGlySerAspValAspLeuThrGluSerLysValPheProArgAspAsp 230
Db 147 TCCGGTGGAGTGCAGCTGATCCCACTGATGGCAAGCTCTTCCCGCAGGATGGT 88
Qy 231 PheThrAspTyrLysGlyGluProLysHisGlyLysArgLysArgLysArgProArg 250
Db 87 TTTTGTGACTGCAAGAGGGGGATCCCAAGCAGCGAAGCGAAACGAGGCCGCCCGG 28
Qy 251 LysLeuSerLysGluTyrTyrAspCys 259
Db 27 AAGCTGAGCAAGAGTACTGGGACTGT 1

RESULT 13
US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yudi
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedwick Thomas S.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-853

Alignment Scores:
Pred. No.: 4,34e-99 Length: 626
Score: 928.50 Matches: 174
Percent Similarity: 90.91% Conservative: 16
Best Local Similarity: 83.25% Mismatches: 18
Query Match: 46.89% Indels: 1
DB: 14 Gaps: 1

US-08-978-217-16_COPY_2_371 (1-370) x US-10-025-380-853 (1-626)

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QY 51 GlyProGluLysAlaSerTrpThrSerGluArgProGlnPheTrpSerLysThrGlnVal 70  
 Db 624 GGTACAGAGAGCCAGCTGTTGGGGAGACAGCCCACTTCTGTCGAGAGCGAGTT 565  
 QY 71 LeuGluTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPhe 90  
 Db 564 CTGAGCTGATCAGCTACCAAGTGGAGAGAACAACTAGTACGAGCGCACTTCACTTC 505  
 QY 91 SerArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeu 110  
 Db 504 TCACGATGTGACATGATGGCCACCTCTGCATTTGTCCTTGGAGAGTGGCTTG 445  
 QY 111 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 130  
 Db 444 GTCTTTGGGCTCTGGGGAGCAACCACTCCATGCGCAGCTCGGAGACTCCTTCCAGCT 385  
 QY 131 SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGlu 150  
 Db 384 TCTGATGAGCTCAGTTGGATCATTTGAGCTGCTGGAGAGGATGGCATGGCTTCCAGGAG 325  
 QY 151 SerLeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAsp 170  
 Db 324 GCCTTA---GACCCAGGGCCCTTTGACAGGCGAGCCCTTTGGCCAGGAGCTGTGGAC 268  
 QY 171 AspGlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerPro 190  
 Db 267 GACGGTCAGCAAGCCAGCCCTTACCAACCCCGCAGCTGTGGCGCAGGAGCCCTCCCCC 208  
 QY 191 GlySerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 210  
 Db 207 GGCAGCTCTGAGCTCTCCACCGCAGGAGCTGTGTCTTCTGGAGCTTCCCACTCTCCAGAC 148  
 QY 211 SerGlyGlySerAspValAspLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 230  
 Db 147 TCCGGTGGAGTGGACCTGACCTGATCCCACTGATGGCAAGCTCTTCCCGAGCATGGT 88  
 QY 231 PheThrAspTyrLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArg 250  
 Db 87 TTTCTGATCTGCAGAGAGGGGATCCCAAGCAGCGGAGCGGAGAGCGGCGGCGGCGGCG 28  
 QY 251 LysLeuSerLysGluTyrTrpAspCys 259  
 Db 27 AAGCTGAGCAAGAGTACTGGGACTGT 1

## RESULT 14

US-09-922-217-944/c

; Sequence 944, Application US/09922217

; Patent No. US20020076414A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Jiang, Yugu

; APPLICANT: Smith, Carole Lynn

; APPLICANT: King, Gordon E.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; FILE REFERENCE: 210121.471C13

; CURRENT APPLICATION NUMBER: US/09/922,217

; NUMBER OF SEQ ID NOS: 1124

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 944

; LENGTH: 563

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-922-217-944

## Alignment Scores:

Pred. No.: 5,1e-88 Length: 563  
 Score: 833.50 Matches: 157  
 Percent Similarity: 91.49% Conservative: 15  
 Best Local Similarity: 83.51% Mismatches: 15  
 Query Match: 42.10% Indels: 1  
 DB: 9 Gaps: 1

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-922-217-944 (1-563)

QY 72 GluTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSer 91  
 Db 562 GACTGATCAGTACCAAGTGGAGAGAACAACTAGTACGAGCGCACTTCACTTCCTCA 503  
 QY 92 ArgCysAsnMetAspGlyAlaThrLeuCysSerCysAlaLeuGluGluLeuArgLeuVal 111  
 Db 502 CGATGTGACATGATGGCCACCTCTGCATTTGTCCTTGGAGAGTGGCTCTGGTC 443  
 QY 112 PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSer 131  
 Db 442 TTTGGGCTCTGGGGAGCAACCACTCCATGCCAGCTCGAGACCTCACTTCCAGCTCTTCT 383  
 QY 132 AspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetSerPheGlnGluSer 151  
 Db 382 GATGAGCTCAGTTGGATCATTTGAGCTGCTGGAGAGGATGGCATGGCTTCCAGGAGGCC 323  
 QY 152 LeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAsp 171  
 Db 322 CTA---GACCCAGGGCCCTTTGACAGGAGCGAGCCCTTTGGCCAGGAGCTGTGGAGAC 266  
 QY 172 GlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGly 191  
 Db 265 GGTGAGCAAGCCAGCCCTTACCAACCCCGCAGCTGTGGCGCAGGAGCCCTCCCGCGGC 206  
 QY 192 SerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAsp 211  
 Db 205 AGTCTGAGCTCTCCACCGCAGGAGCTGTGTCTTCTGGAGCTTCCCACTCTCCAGACTCC 146  
 QY 212 GlyGlySerAspValAspLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 231  
 Db 145 GGTGGAAGTACGCTGGAGCTTCCCACTGATGGCAAGCTTTCCTCCAGCGATGGTTT 86  
 QY 232 ThrAspTyrLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArgLys 251  
 Db 85 CGTGACTGCAGAGGGGATCCCAAGCAGCGGAGCGGAGAGCGGCGGCGGCGGCGGAG 26  
 QY 252 LysLeuSerLysGluTyrTrpAspCys 259  
 Db 25 CTGAGCAAGAGTACTGGGACTGT 2

## RESULT 15

US-09-833-263-944/c

; Sequence 944, Application US/09833263

; Patent No. US20020110547A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Stolk, John A.

; APPLICANT: Meagher, Madeleine J.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND

; FILE REFERENCE: 210121.471C12

; CURRENT APPLICATION NUMBER: US/09/833,263

; CURRENT FILING DATE: 2001-04-10

; NUMBER OF SEQ ID NOS: 1093

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 944

; LENGTH: 563

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-833-263-944

Alignment Scores:

Pred. No.: 5,1e-88 Length: 563  
 Score: 833.50 Matches: 157  
 Percent Similarity: 91.49% Conservative: 15  
 Best Local Similarity: 83.51% Mismatches: 15  
 Query Match: 42.10% Indels: 1  
 DB: 10 Gaps: 1

US-08-978-217-16\_COPY\_2\_371 (1-370) x US-09-833-263-944 (1-563)

Qy	72	GlutTrpIleSerTyrGlnValGluLysAsnLysTyrAspAlaSerSerIleAspPheSer	91
Db	562	GATGGATACGTACCAAGTGGAGAGAGACAGTACGACGAGGCCCATTCACCTTCA	503
Qy	92	ArgCysAsnMetAspGlyAlaThrLeuLysSerCysAlaLeuGluLysLeuVal	111
Db	502	CGATGTGACATGATGGCGCCACCTCTGCAATTGTGCCCTTGGAGAGCTGGTCTGCTC	443
Qy	112	PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerAsnSerSer	131
Db	442	TTTGGGCGCTCTGGGGGACCAACTCCATGCCAGCTCGAGAGCTCACATTCAGCTCTTCT	383
Qy	132	AspGluLeuSerTrpIleLeuLeuLeuLysAspGlyMetSerPheGlnGluSer	151
Db	382	GATGAGCTCAGTTGGATCAATTGAGCTGTGGAGAGGATGGCATGGCTTCCAGGAGGCC	323
Qy	152	LeuGlyAspLeuGlyProPheAspGlnGlySerProPheAlaGlnLeuLeuAspAsp	171
Db	322	CTA---GACCCAGGGCGCTTTGACACAGGGCAGCCCTTTGCCAGGAGCTGTGGACGAC	266
Qy	172	GlyArgGlnAlaSerProTyrTyrCysSerThrTyrGlyProGlyAlaProSerProGly	191
Db	265	GGTCAGCAAGCCAGCCCTTACCCCGGCGAGCTGTGGCGCAGGAGCCCTCCCCCGGC	206
Qy	192	SerSerAspValSerThrAlaArgThrAlaThrProGlnSerSerHisAlaSerAspSer	211
Db	205	AGCTCTGACCTCTCCACCGCAGGGGACTGGTGCTTCTCGGAGCTCCCACTCTCAGACTCC	146
Qy	212	GlyGlySerAspValAspLeuAspLeuThrGluSerLysValPheProArgAspAspPhe	231
Db	145	GGTGGAAAGTACGTGGACCTGGATCCCACTGATGGCAGAGCTCTTCCCGAGCATGGTTT	86
Qy	232	ThrAspTyrLysLysGlyGluProLysHisGlyLysArgLysArgGlyArgProArgLys	251
Db	85	CGTGACTGCAAGAGGGGGATCCCAAGCAGCGGAGCGGAAACGAGGCGGCGCCCGAAAG	26
Qy	252	LeuSerLysGluTyrTrpAspCys	259
Db	25	CTGAGCAAGAGTACTGGGACTGT	2

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 Job time : 599.817 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 13, 2004, 01:27:22 ; Search time 2732.91 Seconds  
(without alignments)  
10448.744 Million cell updates/sec

Title: US-08-978-217-15  
Perfect score: 7752  
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Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA.\*

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- 3: /cgn2\_6/ptodata/1/pubna/US03\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/1/pubna/US07\_NEW\_PUB.seq.\*
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- 10: /cgn2\_6/ptodata/1/pubna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubna/US09\_NEW\_PUB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubna/US10A\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubna/US10B\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubna/US10\_NEW\_PUB.seq.\*
- 17: /cgn2\_6/ptodata/1/pubna/US60\_NEW\_PUB.seq.\*
- 18: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	216	2.8	1907	15	US-10-097-340-74
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3	215.6	2.8	1915	10	US-09-964-824A-563
4	215.6	2.8	1915	10	US-09-880-107-3420
5	215.6	2.8	1915	10	US-09-967-768A-192
6	215.6	2.8	1917	9	US-09-322-217-1105
7	215.6	2.8	1917	14	US-10-025-380-1105
8	215.6	2.8	1956	12	US-10-264-049-756
9	215.6	2.8	1996	9	US-09-925-301-207
10	215.6	2.8	2289	12	US-10-131-410-64
11	185.8	2.4	1435	12	US-10-292-798-1601
12	185.8	2.4	1435	13	US-10-017-161-1953
13	176.2	2.3	626	9	US-09-922-217-853
14	176.2	2.3	626	10	US-09-833-263-853
15	176.2	2.3	626	14	US-10-025-380-853

Sequence 2379, Ap	16	174.2	2.2	620	15	US-10-060-036-2379
Sequence 2216, Ap	c 17	166	2.1	437	10	US-09-998-598-2216
Sequence 3261, Ap	18	163.8	2.1	275	15	US-10-060-036-3261
Sequence 2290, Ap	c 19	163.8	2.1	499	10	US-09-998-598-2290
Sequence 282, App	20	163.8	2.1	502	9	US-09-604-287A-282
Sequence 282, App	21	163.8	2.1	502	10	US-09-339-338-282
Sequence 282, App	22	163.8	2.1	502	11	US-09-551-621-282
Sequence 282, App	23	163.8	2.1	502	13	US-10-124-805-282
Sequence 282, App	24	163.8	2.1	502	14	US-10-076-622-282
Sequence 282, App	25	163.8	2.1	502	15	US-10-076-622-282
Sequence 32, Appl	26	148	1.9	451	10	US-09-998-598-32
Sequence 3233, Ap	27	144	1.9	528	15	US-10-066-543-3233
Sequence 4818, Ap	28	140.2	1.8	355	10	US-09-867-701-4818
Sequence 944, App	c 29	132.2	1.7	563	9	US-09-322-217-944
Sequence 944, App	c 30	132.2	1.7	563	10	US-09-833-263-944
Sequence 944, App	c 31	132.2	1.7	563	14	US-10-025-380-944
Sequence 235, App	c 32	125.8	1.6	33488	12	US-10-085-117-235
Sequence 927, App	c 33	125.6	1.6	237	12	US-10-305-720-927
Sequence 4, Appl	c 34	123.6	1.6	5973	10	US-09-893-238-4
Sequence 253, App	c 35	122	1.6	45606	12	US-10-085-117-253
Sequence 26439, A	c 36	121.4	1.6	214	13	US-10-029-386-26439
Sequence 14745, A	c 37	121.4	1.6	593	9	US-09-864-761-14745
Sequence 12739, A	c 38	120.8	1.6	593	13	US-10-029-386-12739
Sequence 85, Appl	c 39	120.8	1.6	35403	12	US-10-085-117-85
Sequence 43, Appl	c 40	119.8	1.5	42533	13	US-10-004-113-43
Sequence 16, Appl	c 41	119.6	1.5	215980	11	US-09-972-546-16
Sequence 71, Appl	c 42	119.2	1.5	123192	15	US-10-175-523-71
Sequence 223, App	c 43	118.2	1.5	177249	12	US-10-085-117-223
Sequence 241, App	c 44	117.8	1.5	165961	12	US-10-085-117-241
Sequence 6, Appl	c 45	117.8	1.5	263744	13	US-10-229-834A-6

## ALIGNMENTS

### RESULT 1

US-10-097-340-74  
; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1  
; GENERAL INFORMATION:  
; APPLICANT: John MONAHAN  
; APPLICANT: Manjula GANNAVARAPU  
; APPLICANT: Sebastian HOERSCH  
; APPLICANT: Shubhangi KAMATKAR  
; APPLICANT: Steve G. KOVATS  
; APPLICANT: Rachel E. MEYERS  
; APPLICANT: Michael MORRISSEY  
; APPLICANT: Peter OLANDT  
; APPLICANT: Ami SEN  
; APPLICANT: Peter VEIBY  
; APPLICANT: Gordon B. MILLS  
; APPLICANT: Robert C. BAST, Jr.  
; APPLICANT: Karen LU  
; APPLICANT: Rosemarie SCHMANDT  
; APPLICANT: Xumei ZHAO  
; APPLICANT: Karen GLATT  
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification, Assessment, Prevention, and Therapy of Ovarian Cancer  
; FILE REFERENCE: WEI-030  
; CURRENT APPLICATION NUMBER: US/10/097,340  
; CURRENT FILING DATE: 2002-03-14  
; PRIOR APPLICATION NUMBER: 60/276,025  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/325,149  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/276,026  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/324,967  
; PRIOR FILING DATE: 2001/09/26  
; PRIOR APPLICATION NUMBER: 60/311,732  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/325,102  
; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/323,580  
 ; PRIOR FILING DATE: 2001-09-19  
 ; NUMBER OF SEQ ID NOS: 363  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 74  
 ; LENGTH: 1907  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-097-340-74

Query Match 2.8%; Score 216; DB 15; Length 1907;  
 Best Local Similarity 66.7%; Pred. No. 3.3e-54;  
 Matches 456; Conservative 0; Mismatches 195; Indels 33; Gaps 9;

Qy	6999	AGGTATTACTACAAACGGGAGATCCTGGAAACGGGTGGATGCGGACGGCTCGTCTACAAG	7058
Db	1095	AGGTACTACTACAAACGGGAGATCCTGGAAACGGGTGGATGCGGACGGCTCGTCTACAAG	1154
Qy	7059	TTTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGAGTTGGAGAGAGTGGAAATTAAGGA	7118
Db	1155	TTTGGCAAAACTCAAGCGGTGGAGGAGGAAGAGTTTCCAGAGTGGAACTGAGGG	1214
Qy	7119	TCGGGGTGGACCCAGGACCTGACTCAGGATGAATCCAGAACTGAAGCTTCCCTGGAA	7178
Db	1215	TTGGAATATACCCGGGACCAACTCAGGACCACTCGAGCCCTGCAAACTTCTCTGGGA	1274
Qy	7179	GGACAGGAGCCCTGACGGCCCCCTTAACATGATGTTTCCCTGTGTTCTGTGTAGAGAG	7238
Db	1275	GGACAGGAGCCAGATGG-CCCCCTCACTGGGGAATGCTCCAGCTGTGCTGTGAGAG	1333
Qy	7239	GAAGAACTGTGGGGCTGCCCTCTGC---AGTCTCTCAAGTCAGCCCTTTGGCCTC--	7293
Db	1334	AGCTGATGTTTGGTGTATGTGAGCCATCGTCTCTGGACTCGAGACTATGGCTCGC	1393
Qy	7294	--TCTCTCGCCCTCTTGGAAATTAAGAGCCCGGGTTTGAACCAACTTGT-----	7341
Db	1394	CTCCCCACCCCTCTTGGAAATTAAGAGCCCTGGGGTTTGAAGCTGACTTTATAGTGCA	1453
Qy	7342	--TGATAACTCTTCCAGCTGTGATCCAGTCTCCCTCCCGTCCCAACATGACTGCAAT	7399
Db	1454	AGTGTATCTCTTTTATCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1513
Qy	7400	GAGAC---CCACTGCGAGATGCTGGCTCAGCCAGAGAGGCTGGGAGACTGTGGCAGG	7456
Db	1514	AACACCTTCT	1569
Qy	7457	AGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	7513
Db	1570	GGAGCACCCTGATGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1629
Qy	7514	CACCTCTTTGCTCAGTACTCAGGCTCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	7572
Db	1630	CACCT	1689
Qy	7573	TGCTATA--AATATTCAGGTGTATATAGAGAGCTATTTTCTTAAAGATTTCCCTCTCC	7630
Db	1690	TGCTATAAATATATGTCTAGATGTATAGAGATCTATTTTCTTAAAGATTTCCCTCTCC	1749
Qy	7631	CTGCTCTTCTCAGTGTGCTGG 7654	
Db	1750	CACCT	1773

RESULT 2  
 US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 ; FILE OF INVENTION: Sets  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A

; CURRENT FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 101  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-964-824A-101

Query Match 2.8%; Score 215.6; DB 10; Length 1915;  
 Best Local Similarity 65.6%; Pred. No. 4.4e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

Qy	6999	AGGTATTACTACAAACGGGAGATCCTGGAAACGGGTGGATGCGGACGGCTCGTCTACAAG	7058
Db	1119	AGGTACTACTACAAACGGGAGATCCTGGAAACGGGTGGATGCGGACGGCTCGTCTACAAG	1178
Qy	7059	TTTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGAGTTGGAGAGAGTGGAAATTAAGGA	7118
Db	1179	TTTGGCAAAACTCAAGCGGTGGAGGAGGAAGAGTTTCTCAGAGTGGAACTGAGGG	1238
Qy	7119	TCGGGGTGGACCCAGGACCTGACTCAGGATGAATCCAGAACTGAAGCTTCCCTGGAA	7178
Db	1239	TTGGAATATATACCCGGGACCAACTCAGGACCACTCGAGCCCTGCAAACTTCTCTGGGA	1298
Qy	7179	GGACAGGAGCCCTGACGGCCCCCTTAACATGATGTTTCCCTGTGTTCTGTGTAGAGAG	7238
Db	1299	GGACAGGAGCCAGATGG-CCCTCTCACTGGGGAATGCTCCAGCTGTGCTGTGAGAG	1357
Qy	7239	GAAGAACTGTGGGGCTGCCCTCTGC---AGTCTCTCAAGTCAGCCCTTTGGCCTC--	7293
Db	1358	AGCTGATGTTTGGTGTATGTGAGCCATCGTCTCTGGACTCGAGACTATGGCTCTGC	1417
Qy	7294	--TCTCTCGCCCTCTTGGAAATTAAGAGCCCGGGTTTGAACCAACTTGTTCGA-----	7345
Db	1418	CTCCCCACCCCTCTTGGAAATTAAGAGCCCTGGGGTTTGAAGCTGACTTTATAGCTGCA	1477
Qy	7346	-----TAAGTCTTCTCAGCTGTGATTCAGTTCCTCCCGTCCCAACATGGAAGTCA	7397
Db	1478	AGTGTATCTCTCTTTTATCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1537
Qy	7398	ATGAGACCCACTGCAAGATGCTGGCTCAGCCAGAGAGGCTGGGAGAGCTGTGGCAGGA	7457
Db	1538	ACACCTTCT	1595
Qy	7458	GACTGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	7513
Db	1596	GAGCACCCTGATGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1655
Qy	7514	CACCTCTTTGCTCAGTACTCAGGCTCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	7572
Db	1656	CACCT	1715
Qy	7573	TGC--TATAAATATTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	7630
Db	1716	TGCTATATAAATATGTCTAGATGTATAGAGATCTATTTTCTTAAAGATTTCCCTCTCC	1775
Qy	7631	CTGCTCTTCTCAGTGTGCTGG 7654	
Db	1776	CACCT	

RESULT 3  
 US-09-964-824A-563  
 ; Sequence 563, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:



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; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Query Match      2.8%; Score 215.6; DB 10; Length 1915;
Best Local Similarity 65.6%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGGAGATCTCTGAAACGGGTGGATGGCCGACGGCTGTCTACAAAG 7058
Db 1119 AGGTACTACTACAAACGGGAGATCTCTGAAACGGGTGGATGGCCGCGACTGTCTACAAAG 1178

QY 7059 TTGGCAAGAACTCTAGTGGCTGGGAAGGAAGAGTGGAGAGTGGGAATTAAGGA 7118
Db 1179 TTGGCAAAACTCAAGCGGCTGGAAGGAGGAAGAGTGTCTCCAGAGTCGGAACCTGAGGG 1238

QY 7119 TCGGGCTGAGCCAGGACCTGACTCAGCAGCATGAACTCCAGAACTGAAAGCTTCTCTGAA 7178
Db 1239 TTGGAATATACCGGGACCAAACTCAGGACCACTCGAGGCTCGCAACCTTCTCTGGA 1298

QY 7179 GAGACGGAGGCTGACGGCCCTTAAACATGATGTGTTCCTGTGTGTGTGTAGAGAG 7238
Db 1299 GGACAGCAGGCGCAGATGG-CCCTCCACTGGGGAATGCTCCAGCTGTGTGTAGAGAG 1357

QY 7239 GAAGAACTGTGGGGTGGCTCTGC-AGTCTCTCAAGTCAGGCTTGGGCTC- 7293
Db 1358 AAGCTGATGTTTGGTGTATTTGTCAGCCATGCTCTCGGAGCTCGGAGACTATGGCTCGC 1417

QY 7294 --TCTCTCGCCCTCTTGGAAATTACAAAGCCCGGGTTTGAACCAACTTGTTCGA----- 7345
Db 1418 CTCCCAACCTCTCTTGGAAATTACAGCCCTTGGGTTTGAAGCTGACTTTATAGCTGCA 1477

QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTCCTCCCTCCCAACATGAGTGC 7397
Db 1478 AGTGATCTCTCTTTATCTGGTCCCTCAAACCCAGTCTCAGACACTAAATGCAGACA 1537

QY 7398 ATGAGACCCACTGACAGATGCTGGCTCAGCCAGGAGGCTGGGAGACTGTGGCAGGA 7457
Db 1538 ACACCTTCTCTGACAGACTGAGTGAAGTGAAGGAGGCTGGG--GAGGCCCTAGGG 1595

QY 7458 GACTGAGGAGCGGAGGAGAGGTTGTCTCG- -TACTTCTGAGCTGCCTTC 7513
Db 1596 GAGCACCGTGATGGAGAGGAGAGAGGAGGCTTCTTCTGAGCTGGCGTT 1655

QY 7514 CACCTCTTGTCTCAGTACTCAGCTCCACAGAGGGGTTCGGATCA-TCCCTTAATTATG 7572
Db 1656 CACCTCTTGTCTCAGTACTCAGCTCCACAGAGGGGTTCGGATCA-TCCCTTAATTATG 1715

QY 7573 TGC--TATAAAATATTCAGGTGTATATAGAGAGCTATTTTTTCTAAAGCATTTCCCTCC 7630
Db 1716 TGTATATAAATATGTCAGATGTATATAGAGATCTATTTTTTCTAAAGCATTTCCCTCC 1775

QY 7631 CTGCTCTTCTCCAGTGTCTGG 7654
Db 1776 CACTCTCTCCACAGAGTCTGG 1799

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RESULT 4
US-09-880-107-3420
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Query Match      2.8%; Score 215.6; DB 10; Length 1915;
Best Local Similarity 65.6%; Pred. No. 4.4e-54;
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGGAGATCTCTGAAACGGGTGGATGGCCGACGGCTGTCTACAAAG 7058
Db 1119 AGGTACTACTACAAACGGGAGATCTCTGAAACGGGTGGATGGCCGCGACTGTCTACAAAG 1178

QY 7059 TTGGCAAGAACTCTAGTGGCTGGGAAGGAAGAGTGGAGAGTGGGAATTAAGGA 7118
Db 1179 TTGGCAAAACTCAAGCGGCTGGAAGGAGGAAGAGTGTCTCCAGAGTCGGAACCTGAGGG 1238

QY 7119 TCGGGCTGAGCCAGGACCTGACTCAGCAGCATGAACTCCAGAACTGAAAGCTTCTCTGAA 7178
Db 1239 TTGGAATATACCGGGACCAAACTCAGGACCACTCGAGGCTCGCAACCTTCTCTGGA 1298

QY 7179 GAGACGGAGGCTGACGGCCCTTAAACATGATGTGTTCCTGTGTGTGTGTAGAGAG 7238
Db 1299 GGACAGCAGGCGCAGATGG-CCCTCCACTGGGGAATGCTCCAGCTGTGTGTAGAGAG 1357

QY 7239 GAAGAACTGTGGGGTGGCTCTGC-AGTCTCTCAAGTCAGGCTTGGGCTC- 7293
Db 1358 AAGCTGATGTTTGGTGTATTTGTCAGCCATGCTCTCGGAGCTCGGAGACTATGGCTCGC 1417

QY 7294 --TCTCTCGCCCTCTTGGAAATTACAAAGCCCGGGTTTGAACCAACTTGTTCGA----- 7345
Db 1418 CTCCCAACCTCTCTTGGAAATTACAGCCCTTGGGTTTGAAGCTGACTTTATAGCTGCA 1477

QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTCCTCCCTCCCAACATGAGTGC 7397
Db 1478 AGTGATCTCTCTTTATCTGGTCCCTCAAACCCAGTCTCAGACACTAAATGCAGACA 1537

QY 7398 ATGAGACCCACTGACAGATGCTGGCTCAGCCAGGAGGCTGGGAGACTGTGGCAGGA 7457
Db 1538 ACACCTTCTCTGACAGACTGAGTGAAGTGAAGGAGGCTGGG--GAGGCCCTAGGG 1595

QY 7458 GACTGAGGAGCGGAGGAGAGGTTGTCTCG- -TACTTCTGAGCTGCCTTC 7513
Db 1596 GAGCACCGTGATGGAGAGGAGAGAGGAGGCTTCTTCTGAGCTGGCGTT 1655

QY 7514 CACCTCTTGTCTCAGTACTCAGCTCCACAGAGGGGTTCGGATCA-TCCCTTAATTATG 7572
Db 1656 CACCTCTTGTCTCAGTACTCAGCTCCACAGAGGGGTTCGGATCA-TCCCTTAATTATG 1715

QY 7573 TGC--TATAAAATATTCAGGTGTATATAGAGAGCTATTTTTTCTAAAGCATTTCCCTCC 7630
Db 1716 TGTATATAAATATGTCAGATGTATATAGAGATCTATTTTTTCTAAAGCATTTCCCTCC 1775

QY 7631 CTGCTCTTCTCCAGTGTCTGG 7654
Db 1776 CACTCTCTCCACAGAGTCTGG 1799

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Db 1716 TGTATATAAATATGTCAGATGTACATAGAGATCTATTTTTTCTAAACATTCCTCCCTCC 1775  
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 Db 1776 CACTCTCTCCACAGAGTGCTGG 1799

RESULT 5  
 US-09-967-768A-192  
 ; Sequence 192, Application US/09967768A  
 ; Patent No. US20020150877A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Augustus, Meena  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 ; FILE REFERENCE: 689290-72  
 ; CURRENT APPLICATION NUMBER: US/09/967,768A  
 ; CURRENT FILING DATE: 2001-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,109  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,034  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,111  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 325  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 192  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-967-768A-192

Query Match 2.8%; Score 215.6; DB 10; Length 1915;  
 Best Local Similarity 65.6%; Pred. No. 4.4e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTAAACGGGAGATCTGGAACGGGTGGATGCCGACGGCTCGTCTACAAG 7058  
 Db 1119 AGGTACTACTAAACGGGAGATCTGGAACGGGTGGATGCCGACGGCTCGTCTACAAG 1178

QY 7059 TTGGCAAGAACTCTAGTGGCTGGAGGAAGAGAGTTGGAGAGTCCGAATTAAAGGA 7118  
 Db 1179 TTGGCAAAACTCAAGCGGTGGAGGAGAGTTCTCCAGAGTCCGAAGTGAAGG 1238

QY 7119 TCGGGCTGGACCCAGGACCTGATCTCAGGCATGAATCCAGAACTGAAGCTTCCTCGAA 7178  
 Db 1239 TTGGAACTATACCCGGGACCAAACTCAGGACCACTCGAGGCTGCAAACTTCCTGGGA 1298

QY 7179 GGACAGGAGGCTGACGGCCCCCTTAAATGATGATGTTCCCTGTGTGTCTGTAGAGAG 7238  
 Db 1299 GGACAGGAGGCTGATGG--CCCTTCACTGGGGAATGCTCCAGCTGTGTCTGTAGAGAG 1357

QY 7239 GAAGAACTGTGGGCGTGCCTCTGC---AGTCTCTCAAGTGCAGCCTTTGGCCTC-- 7293  
 Db 1358 AAGCTGATGTTTGGTGATGTTGTCAGCATGCTCTGGAGTCCGAGACTATGGCCTCGC 1417

QY 7294 --TCTCTCGCCCTTTCGAATTAACAGCCCCGGGTTTGAACCAACTTGTTCGA----- 7345  
 Db 1418 CTCCCACTCTCTTTCGAATTAACAGCCCCGGGTTTGAAGCTGACTTTATAGTGCA 1477

QY 7346 -----TAAGTCTTCAGTGTGATTCAGTTCCTCTCCGTCCCAACATGAGTCA 7397  
 Db 1478 AGTGATATCTCTTTATCTGGTGCTCTCTCAAACTCAGTCTCAGACTAAATGACAGA 1537

QY 7398 ATGAGACCACTGTCAGATGCTGGCCTCAGCCAGGAGGCTGGGAGACTGTGGCAGGA 7457  
 Db 1538 ACACCTCTCTCTGACAGACCTGAGCTGAGCAGGAGGAGGCTGG--GAGGCCCTAGGG 1595

QY 7458 GACTCAGGACGAGGAGGAGAGGTTGTGCTCTGG-----TACTTCTGAGTGCCTTC 7513  
 Db 1596 GAGCAGGCTGTGGAGAGGAGAGAGGAGGCTCCAGCAGCTTCTTCTGAGTGGCGTT 1655

QY 7514 CACCTCTTGTGCTAGTACTCAGGCTCCAGAGCGGGGTCCGATCA-TCCTTAATTTATG 7572

Db 1656 CACCTCCCTGCTAGTCTTGGGCTCCACGGGAGGGTTCAGAGCACTCCCTAATTTATG 1715  
 QY 7573 TGC--TATAATATTTCCAGGTGTATATAGAGAGCTATTTTTTCTAAAGCAATTTCCCTCC 7630  
 Db 1716 TGTATATAAATATGTCAGATGTACATAGAGATCTATTTTTTCTAAACATTCCTCCCTCC 1775

QY 7631 CTGCTCTTCCACTGAGTGCTGG 7654  
 Db 1776 CACTCTCTCCACAGAGTGCTGG 1799

RESULT 6  
 US-09-922-217-1105  
 ; Sequence 1105, Application US/09922217  
 ; Patent No. US2002007641A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922,217  
 ; CURRENT FILING DATE: 2001-08-03  
 ; NUMBER OF SEQ ID NOS: 1124  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1105  
 ; LENGTH: 1917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-922-217-1105

Query Match 2.8%; Score 215.6; DB 9; Length 1917;  
 Best Local Similarity 65.6%; Pred. No. 4.4e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTAAACGGGAGATCTGGAACGGGTGGATGCCGACGGCTCGTCTACAAG 7058  
 Db 1121 AGGTACTACTAAACGGGAGATCTGGAACGGGTGGATGCCGACGGCTCGTCTACAAG 1180

QY 7059 TTGGCAAGAACTCTAGTGGCTGGAGGAAGAGAGTTGGAGAGTCCGAATTAAAGGA 7118  
 Db 1181 TTGGCAAAACTCAAGCGGTGGAGGAGAGTTCTCCAGAGTCCGAAGTGAAGG 1240

QY 7119 TCGGGCTGGACCCAGGACCTGATCTCAGGCATGAATCCAGAACTGAAGCTTCCTCGAA 7178  
 Db 1241 TTGGAACATATACCCGGGACCAAACTCAGGACCACTCGAGGCTGCAAACTTCCTGGGA 1300

QY 7179 GGACAGGAGGCTGACGGCCCCCTTAAATGATGATGTTCCCTGTGTGTCTGTAGAGAG 7238  
 Db 1301 GGACAGGAGGCTGATGG--CCCTTCACTGGGGAATGCTCCAGCTGTGTCTGTAGAGAG 1359

QY 7239 GAAGAACTGTGGGCGTGCCTCTGC---AGTCTCTCAAGTGCAGCCTTTGGCCTC-- 7293  
 Db 1360 AAGCTGATGTTTGGTGATGTTGTCAGCATGCTCTGGAGTCCGAGACTATGGCCTCGC 1419

QY 7294 --TCTCTCGCCCTTTCGAATTAACAGCCCCGGGTTTGAACCAACTTGTTCGA----- 7345  
 Db 1420 CTCCCACTCTCTTTCGAATTAACAGCCCCGGGTTTGAAGCTGACTTTATAGTGCA 1479

QY 7346 -----TAAGTCTTCAGTGTGATTCAGTTCCTCTCCGTCCCAACATGAGTCA 7397  
 Db 1480 AGTGATATCTCTTTATCTGGTGCTCTCTCAAACTCAGACTCTCAGACACTAAATGACAGA 1539

QY 7398 ATGAGACCCACCTGCAGATGCTGGGCTCAGCAAGAGGCTGGGAGACTGTGGCAGGA 7457  
Db 1540 ACACCTTCTCTCTGTCAGACACCTGACTGAGCCAGGAGGCTGG--GAGGCCCTAGGG 1597  
QY 7458 GACTGCAGGAGCAGGAGGACAGGGTTGTCTCG-----TACTTCTGAGACTGCCCTTC 7513  
Db 1598 GAGCACCCTGATGGAGAGACAGAGCAGGGGCTCCAGCACCTTCTTCTGAGCTGGCGTT 1657  
QY 7514 CACCTCTTCTCAGTACCTCAGCTCCAGCTCCAGAGGGGTCGATCA-TCCCTAATTATG 7572  
Db 1658 CACCTCCCTGCTCAGTGTCTGGCTCCAGGGAGGGTCAAGACACTCCCTTAATTATG 1717  
QY 7573 TGC--TATAAATATCCAGGTGTATATAGAGACTATTTTTCTAAAGCAATTCCTCC 7630  
Db 1718 TGTATATAAATATGTACATGTATACATAGAGACTATTTTTCTAAACATTCCTCCCTCC 1777  
QY 7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
Db 1778 CACTCCTCTCCACAGAGTCTGG 1801

## RESULT 7

US-10-025-380-1105

; Sequence 1105, Application US/10025380

; Publication No. US20020182191A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Smith, Carole L.

; APPLICANT: King, Gordon E.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedvick Thomas S.

; APPLICANT: Carter, Darrick

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

; FILE REFERENCE: 210121.471C14

; CURRENT APPLICATION NUMBER: US/10/025,380

; PRIOR FILING DATE: 2001-12-19

; NUMBER OF SEQ ID NOS: 1129

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1105

; LENGTH: 1917

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-025-380-1105

Query Match 2.8%; Score 215.6; DB 14; Length 1917;  
Best Local Similarity 65.6%; Pred. No. 4.4e-54;  
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;  
QY 5999 AGTATTACTACAAACGGAGATCCTGGAAACGGGTGGATGGCCGACGGCTCGTCTACAAG 7058  
Db 1121 AGGTACTACTACAAACGGAGATCCTGGAAACGGGTGGATGGCCGCGCACTCGTCTACAAG 1180  
QY 7059 TTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGGTTGGAGAGTCCGGAATTAAGGA 7118  
Db 1181 TTGGCAAAACTCAAGCGCTGGAAGGAGAGAGGTTCTCGAGTCCGAACTGAGG 1240  
QY 7119 TCGGGCTGACCCAGCACTGACTCAGGCATGAATCCAGAACTGAAGCTTCTCTGGAA 7178  
Db 1241 TTGGAATATACCCGGGACCAAACTCAGGACCTCGAGGCTGCAAACTTCTCTGGGA 1300  
QY 7179 GGACAGCGGCTCAGCGGCCCTTAAACATGATGTGTCTCTCTGTGTGTGTAGAGAG 7238

Db 1301 GGACAGCAGGCGCAGATGG--CCCTCCACTGGGGAAATGCTCCCGAGCTGTGTGTGAGAG 1359  
QY 7239 GAAGAACCTGTTGGGGGTGCCCTCTGC--AGTCTCTCAAGTGCAGCTTTGGCCCTC-- 7293  
Db 1360 AAGCTGATGTTTTGGTGTATTTGTCAAGCCATCGTCTGGGACTCGGAGACTATGGCCTCGC 1419  
QY 7294 --TCTCTCGCCCTCTTGGAAATTACAAGCCCGGGTTGAACCAACTTGTTCGA----- 7345  
Db 1420 CTCCCAACCCCTCTCTTGGAAATTACAAGCCCTGGGGTTGAAGCTGACTTTATAGTCGA 1479  
QY 7346 -----TAACTCTTCCAGCTGTGATTCAGTTCCTCCGTCCTCCCAACATGAGACTGCAA 7397  
Db 1480 AGTGTATCTCTTTTATCTGTGCTCCTCAACCCAGTCTCAGACACTAAATGCGAGACA 1539  
QY 7398 ATGAGACCCACCTCGAGATGCTTGGCTCAGCCCAAGAGGCTGGGAGACTGTGGCAGGA 7457  
Db 1540 ACACCTTCTCTCTGCGACACCTGGACTGAGCCAGAGGCGCTGGG--GAGGCCCTAGGG 1597  
QY 7458 GACTGCAGGAGCAGGAGGAGACAGGGTTGTGCTCGG----TACTTCTCGGACTGCCTTC 7513  
Db 1598 GAGCACCGTCAATGAGAGGAGACAGAGAGGGGCTCCAGCACCTTCTTCTGGAATGCGGTT 1657  
QY 7514 CACCTCTTCTCTCAGTACTCAGGCTCCAGAGCGGGGTGCGATCA-TCCCTAATTATG 7572  
Db 1658 CACCTCCTCTCAGTCTTGGGCTCCAGGGGCGGTGAGAGACTCCCTTAATTATG 1717  
QY 7573 TGC--TATAAATATTCAGGTGTATATAGAGACTATTTTTCTAAAGCAATTCCTCCCTCC 7630  
Db 1718 TGTATATAAATATGTACATGTATACATAGAGACTATTTTTCTAAACATTCCTCCCTCC 1777  
QY 7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
Db 1778 CACTCCTCTCCACAGAGTCTGG 1801

## RESULT 8

US-10-264-049-756

; Sequence 756, Application US/10264049

; Publication No. US20040005579A1

; GENERAL INFORMATION:

; APPLICANT: Birse et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PA133P1

; CURRENT APPLICATION NUMBER: US/10/264,049

; CURRENT FILING DATE: 2002-10-04

; PRIOR APPLICATION NUMBER: PCT/US01/18569

; PRIOR FILING DATE: 2001-06-07

; PRIOR APPLICATION NUMBER: US 60/209,467

; NUMBER OF SEQ ID NOS: 4360

; SOFTWARE: PatentIn Ver. 3.1

; SEQ ID NO 756

; LENGTH: 1956

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-264-049-756

Query Match 2.8%; Score 215.6; DB 12; Length 1956;  
Best Local Similarity 65.8%; Pred. No. 4.4e-54;  
Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;  
QY 5999 AGGTATTACTACAAACGGAGATCCTGGAAACGGGTGGATGGCCGACGGCTCGTCTACAAG 7058  
Db 1160 AGGTACTACTACAAACGGAGATCCTGGAAACGGGTGGATGGCCGCGCACTCGTCTACAAG 1219  
QY 7059 TTGGCAAGAACTCTAGTGGCTGGAAGGAAGAGGTTGGAGAGTCCGGAATTAAGGA 7118  
Db 1220 TTGGCAAAACTCAAGCGGCTGGAAGGAGAGAGGTTCTCCAGAGTCCGAACTGAGG 1279  
QY 7119 TCGGGCTGACCCAGCACTGACTCAGGCATGAATCCAGAACTGAAGCTTCTCTGGAA 7178  
Db 1280 TTGGAATATACCCGGGACCAAACTCAGGACCACTCGAGGCGCTGCAAACTTCTCTGGGA 1339

QY 7179 GGACAGCAGCCTGAGCGCCCTTAAACATGATGTGTTCCCTGTGTTCTGTAGAG 7238  
 Db 1340 GGACAGCAGCCTGAGCGCCCTTAAACATGATGTGTTCCCTGTGTTCTGTAGAG 1398  
 QY 7239 GAAGAACTGTGGCGCTGCGCTGTCG-...AGTCTCTCAAGTGCAGCCCTTTGGCTC- 7293  
 Db 1399 AAGCTGATGTTTGGTGTATTGTGTCAGGCATGCTCTGGGACTCGGAGACTATGGCCCTGC 1458  
 QY 7294 --TCTCTCGCCCTCTTGGAAATACAGAGCCCGGTTTGAACCACTTGTTCGA----- 7345  
 Db 1459 CTCCTCCACCTCTCTTGGAAATACAGAGCCCTGGGTTTGAAGCTGACTTATAGTGC 1518  
 QY 7346 -----TAACTCTTCAGCTGTGATTCAGATTCCCTCCCGTCCCAACATGACCTGCAA 7397  
 Db 1519 AGTGTATCTCTCTTATCTGTGCTCTCTCAACCCAGTCTCAGACACTAAATGACAGCA 1578  
 QY 7398 ATGAGACCCACCTGACATGCTGCTGCTCAGCCAGCCAGGAGCTGGGAGACTTGGCAGGA 7457  
 Db 1579 ACACCTTCTCTCTGACACACCTGAGCTGAGCCAGGAGGCTGGG-...GAGGCCCTAGGG 1636  
 QY 7458 GACTGCAGGACCGAGGAGGAGGCTGCTGCTCTCG-...TACTTCTCTGAGCTGCTCTC 7513  
 Db 1637 GAGCACCTGTATGAGAGGAGCAGAGCAGGAGGCTCCAGCACCTTCTTCTGGACTGGCGTT 1696  
 QY 7514 CACTCTTGTCTGATGACTCAGCTCAGCTCAGCAGCGGGGTCGATCA-TCCTTAATTATG 7572  
 Db 1697 CACTCTCTCTGCTCAGTCTGCTGCTCAGCAGGAGGCTCCAGCACCTCCTCAATTATG 1756  
 QY 7573 TGC--TATAAATATTCAGGTGTATATAGAGAGCTATTTTCTAAAGCATTTCCCTCTCC 7630  
 Db 1757 TGCTATATAATATGTCAGATGATACATAGAGATCTATTTTCTAAACATTTCCCTCTCC 1816  
 QY 7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
 Db 1817 CACTCTCTCTCCACAGAGTCTGG 1840

RESULT 9

US-09-925-301-207  
 ; Sequence 207, Application US/09925301  
 ; Patent No. US20020052308A1

GENERAL INFORMATION:

; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: P106  
 ; CURRENT APPLICATION NUMBER: US/09/925,301  
 ; PRIOR FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1694  
 ; SOFTWARE: Patent in Ver. 2.0  
 ; SEQ ID NO 207  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-925-301-207

Query Match 2.8%; Score 215.6; DB 9; Length 1996;  
 Best Local Similarity 65.6%; Pred. No. 4.5e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGAGATCCTGGAACGGGTGGATGCGGAGCTCGTCTACAAG 7058  
 Db 1140 AGGTATTACTACAAACGGAGATCCTGGAACGGGTGGATGCGGAGCTCGTCTACAAG 1199  
 QY 7059 TTGGCAAGAACTTAGTGGCTGAAGAGAGAGAGCTTGGAGAGAGTGGAAATTAAGA 7118  
 Db 1200 TTGGCAAAACTCAAGCGGCTGAAGAGAGAGAGTTCCTCAGAGTGGAACTGAGGG 1259  
 QY 7119 TCGGGCTGGACCCAGGACCTGACTCAGGCATGACTCCAGACTCCAGAGCTTCTCTGGAA 7178

Db 1260 TTGGAACCTATACCGGACCAAACTCAGCGACCACTCGAGSCCTCGCAAACTTCTCTGGGA 1319  
 QY 7179 GGACAGCAGCCTGAGCGCCCTTAAACATGATGTGTTCCCTGTGTTCTGTAGAGAG 7238  
 Db 1320 GGACAGCAGCCTGAGCGCCCTTAAACATGATGTGTTCCCTGTGTTCTGTAGAGAG 1378  
 QY 7239 GAAGAACTGTGGCGCTGCGCTCTCG-...AGTCTCTCAAGTGCAGCCCTTTGGCTC- 7293  
 Db 1379 AAGCTGATGTTTGGTGTATTGTGTCAGCCATCGTCTCGGACTCGGAGACTATGGCTCTGC 1438  
 QY 7294 --TCTCTCGCCCTCTTGGAAATACAGAGCCCGGTTTGAACCACTTGTTCGA----- 7345  
 Db 1439 CTCCTCCACCTCTCTTGGAAATACAGAGCCCTGGGTTTGAAGCTGACTTATAGTGC 1498  
 QY 7346 -----TAACTCTTCCAGCTGTGATTCAGATTCCCTCCCGTCCCAACATGACCTCAA 7397  
 Db 1499 AGTGTATCTCTCTTATCTGTGCTCTCTCAACCCAGTCTCAGACACTAAATGACAGCA 1558  
 QY 7398 ATGAGACCCACCTGACATGCTGCTGCTCAGCCAGGAGGCTGGGAGAGATGTGGCAGGA 7457  
 Db 1559 ACACCTTCTCTCTGACAGACACTGAGCTGAGCCAGGAGGCTGGG-...GAGGCCCTAGGG 1616  
 QY 7458 GACTGCAGGACCGAGGAGGAGGCTGCTGCTCTCG-...TACTTCTCTGAGCTGCTCTC 7513  
 Db 1617 GAGCACCTGTATGAGAGGAGCAGAGCAGGAGGCTCCAGCACCTTCTTCTGACTTGGCTT 1676  
 QY 7514 CACTCTTGTCTGATGACTCAGGCTCAGCAGCGGGGTCGATCA-TCCTTAATTATG 7572  
 Db 1677 CACTCTCTGCTCAGTCTGCTGGGCTCCACGCGGAGGCTCAGAGCACTCCTCAATTATG 1736  
 QY 7573 TGC--TATAAATATTCAGGTGTATATAGAGAGCTATTTTCTAAAGCATTTCCCTCTCC 7630  
 Db 1737 TGCTATATAATATGTCAGATGATACATAGAGATCTATTTTCTAAACATTTCCCTCTCC 1796  
 QY 7631 CTGCTCTTCTCCACTGAGTCTGG 7654  
 Db 1797 CACTCTCTCTCCACAGAGTCTGG 1820

RESULT 10

US-10-131-410-64  
 ; Sequence 64, Application US/10131410  
 ; Publication No. US20030235915A1

GENERAL INFORMATION:

; APPLICANT: SPECHT, THOMAS  
 ; APPLICANT: HINZMANN, BERND  
 ; APPLICANT: SCHMITT, ARMIN  
 ; APPLICANT: PILARSKY, CHRISTIAN  
 ; APPLICANT: DAHL, EDGAR  
 ; APPLICANT: ROSENTHAL, ANDRE  
 ; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST  
 ; TITLE OF INVENTION: TUMORS  
 ; FILE REFERENCE: SCH-1763  
 ; CURRENT APPLICATION NUMBER: US/10/131,410  
 ; CURRENT FILING DATE: 2002-04-25  
 ; PRIOR FILING DATE: 2002-04-25  
 ; PRIOR APPLICATION NUMBER: 09/646,673  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908  
 ; PRIOR FILING DATE: 1999-03-19  
 ; NUMBER OF SEQ ID NOS: 202  
 ; SOFTWARE: Patent in Ver. 2.1  
 ; SEQ ID NO 64  
 ; LENGTH: 2269  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-131-410-64

Query Match 2.8%; Score 215.6; DB 12; Length 2269;  
 Best Local Similarity 65.6%; Pred. No. 4.9e-54;  
 Matches 449; Conservative 0; Mismatches 204; Indels 31; Gaps 8;

QY 6999 AGGTATTACTACAAACGGAGATCCTGGAACGGGTGGATGCGGAGCTCGTCTACAAG 7058





; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 853  
; LENGTH: 626  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-853

Query Match 2.3%; Score 176.2; DB 14; Length 626;  
Best Local Similarity 85.6%; Pred. No. 2.3e-42;  
Matches 196; Conservative 0; Mismatches 33; Indels 0; Gaps 0;  
Qy 4147 TGCAGAGAGGCAAGCTGGACTAGCGAGCGGCGCCCGAGTTCTGGTCCGAAGACCCAGGTTCT 4206  
Db |||||||  
622 TACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCGAGTTCTGGTCCGAAGACCCAGGTTCT 563  
Qy 4207 GGAGTGGATCAGCTACCAAGTGGAGAGAGAAAGATAGAGCCAGCTCCATCGACTTCTC 4266  
Db |||||||  
562 GGACTGGATCAGCTACCAAGTGGAGAGAGAAAGATAGAGCCAGCTCCATCGACTTCTC 503  
Qy 4267 CCGCTGCAACATGACGAGGACCCCTCTGCAGCTGTGGCTGGAGGAGCTGGGCTAGT 4326  
Db |||||||  
502 ACGATGTGACATGGATGGCGCCACCCCTCTGCAATTTGGCCCTTGAGGAGCTGGCTGTGT 443  
Qy 4327 CTTTGGACCTCTGGGAGACCAAGCTCCATGCCCAGCTTGGGACCTCAGT 4375  
Db |||||||  
442 CTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTGGAGACCTCACT 394

Search completed: February 13, 2004, 11:48:40  
Job time : 2738.91 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 13, 2004, 01:27:22 ; Search time 7.40341 Seconds  
(without alignments)  
10448.744 Million cell updates/sec

Title: US-08-978-217-14

Perfect score: 21  
Sequence: 1 GTACCTCATGCGCCGGCTCAG 21

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:

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- 2: /cgn2\_6/prodata/1/pubpna/PCT\_NEW\_PUB.seq\*
- 3: /cgn2\_6/prodata/1/pubpna/US06\_NEW\_PUB.seq\*
- 4: /cgn2\_6/prodata/1/pubpna/US06\_PUBCOMB.seq\*
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- 6: /cgn2\_6/prodata/1/pubpna/PCTUS\_PUBCOMB.seq\*
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- 8: /cgn2\_6/prodata/1/pubpna/US08\_PUBCOMB.seq\*
- 9: /cgn2\_6/prodata/1/pubpna/US09\_PUBCOMB.seq\*
- 10: /cgn2\_6/prodata/1/pubpna/US09\_PUBCOMB.seq\*
- 11: /cgn2\_6/prodata/1/pubpna/US09C\_PUBCOMB.seq\*
- 12: /cgn2\_6/prodata/1/pubpna/US09\_NEW\_PUB.seq\*
- 13: /cgn2\_6/prodata/1/pubpna/US09\_NEW\_PUB.seq2\*
- 14: /cgn2\_6/prodata/1/pubpna/US10A\_PUBCOMB.seq\*
- 15: /cgn2\_6/prodata/1/pubpna/US10B\_PUBCOMB.seq\*
- 16: /cgn2\_6/prodata/1/pubpna/US10\_NEW\_PUB.seq\*
- 17: /cgn2\_6/prodata/1/pubpna/US60\_NEW\_PUB.seq\*
- 18: /cgn2\_6/prodata/1/pubpna/US60\_PUBCOMB.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	21	100.0	237	12	US-10-305-720-927
C 2	21	100.0	451	10	US-09-998-598-32
C 3	21	100.0	499	10	US-09-998-598-2290
C 4	21	100.0	502	9	US-09-604-287A-282
C 5	21	100.0	502	10	US-09-339-338-282
C 6	21	100.0	502	11	US-09-551-621-282
C 7	21	100.0	502	13	US-10-124-805-282
C 8	21	100.0	502	14	US-10-007-805-282
C 9	21	100.0	502	15	US-10-076-622-282
C 10	21	100.0	1907	15	US-10-097-340-74
C 11	21	100.0	1915	10	US-09-964-824A-101
C 12	21	100.0	1915	10	US-09-964-824A-563
C 13	21	100.0	1915	10	US-09-880-107-3420
C 14	21	100.0	1915	10	US-09-967-768A-192
C 15	21	100.0	1917	9	US-09-922-217-1105

C 16	21	100.0	1917	14	US-10-025-380-1105
C 17	21	100.0	1956	12	US-10-264-049-756
C 18	21	100.0	1996	9	US-09-925-301-207
C 19	21	100.0	2269	12	US-10-131-410-64
C 20	19	90.5	275	15	US-10-060-036-3261
C 21	19	90.5	1435	12	US-10-292-798-1601
C 22	19	90.5	1435	13	US-10-017-161-1953
C 23	16.8	80.0	9025608	15	US-10-156-761-1
C 24	16.4	78.1	619	12	US-10-391-172-388
C 25	16.4	78.1	733	13	US-10-027-632-149050
C 26	16.4	78.1	733	14	US-10-027-632-149050
C 27	16.4	78.1	1851	15	US-10-156-761-5632
C 28	16.4	78.1	2094	13	US-10-027-632-109965
C 29	16.4	78.1	2094	14	US-10-027-632-109965
C 30	16.4	78.1	2212	10	US-09-919-497-25
C 31	16.4	78.1	2450	12	US-10-388-934-599
C 32	16.4	78.1	10322	10	US-09-764-868-1471
C 33	16.4	78.1	130427	15	US-10-175-523-87
C 34	16.4	78.1	9025608	15	US-10-156-761-1
C 35	16.2	77.1	366	15	US-10-187-267A-10
C 36	16.2	77.1	402	12	US-10-242-535A-7139
C 37	16.2	77.1	470	12	US-10-242-535A-42404
C 38	16.2	77.1	624	15	US-10-156-761-7031
C 39	16.2	77.1	1639	13	US-10-247-671-46
C 40	16.2	77.1	2266	12	US-10-388-263-201
C 41	16.2	77.1	2939	14	US-10-044-090-350
C 42	16.2	77.1	3121	12	US-10-439-249-6
C 43	16.2	77.1	3121	13	US-09-866-034-6
C 44	16.2	77.1	3121	13	US-10-210-951-65
C 45	16.2	77.1	3121	13	US-10-211-884-65

## ALIGNMENTS

### RESULT 1

US-10-305-720-927/c  
; Sequence 927, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 927  
; LENGTH: 237  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 773734  
US-10-305-720-927

Query Match 100.0%; Score 21; DB 12; Length 237;  
Best Local Similarity 100.0%; Pred. NO. 0.77;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTACCTCATGCGCCGGCTCAG 21  
Db 55 GTACCTCATGCGCCGGCTCAG 35

### RESULT 2

US-09-998-598-32/c  
; Sequence 32, Application US/09998598  
; Patent No. US20020150322A1  
; GENERAL INFORMATION:  
; APPLICANT: Stolk, John A.



```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Mesgher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 32
; LENGTH: 451
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-32

Query Match      100.0%; Score 21; DB 10; Length 451;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
Db 109 GTACCTCATGCGCCGGCTCAG 89

RESULT 3
US-09-998-598-2290
; Sequence 2290, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stoik, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Mesgher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 2290
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-2290

Query Match      100.0%; Score 21; DB 10; Length 499;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
Db 156 GTACCTCATGCGCCGGCTCAG 176

RESULT 4
US-09-604-287A-282/c
; Sequence 282, Application US/09604287A
; Patent No. US20020064872A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604,287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489

; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C5
; CURRENT APPLICATION NUMBER: US/09/551,621
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-551-621-282

Query Match      100.0%; Score 21; DB 11; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-604-287A-282

Query Match      100.0%; Score 21; DB 9; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
Db 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 5
US-09-339-338-282/c
; Sequence 282, Application US/09339338A
; Patent No. US20020102602A1
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-339-338-282

Query Match      100.0%; Score 21; DB 10; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCCGGCTCAG 21
Db 458 GTACCTCATGCGCCGGCTCAG 438

RESULT 6
US-09-551-621-282/c
; Sequence 282, Application US/09551621
; Publication No. US20030104366A1
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C5
; CURRENT APPLICATION NUMBER: US/09/551,621
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-551-621-282

Query Match      100.0%; Score 21; DB 11; Length 502;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GTACCTCATGGCCCGGCTCAG 21  
458 GTACCTCATGGCCCGGCTCAG 438  
Db

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RESULT 7
US-10-124-805-282/c
; Sequence 282, Application US/10124805
; Publication NO. US20030166022A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Houghton, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C12
; CURRENT APPLICATION NUMBER: US/10/124,805
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-124-805-282

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RESULT 8
US-10-007-805-282/c
; Sequence 282, Application US/10007805
; Publication No. US20020150581A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Durham, Margarita
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF BREAST CANCER
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C10
; CURRENT APPLICATION NUMBER: US/10/007,805
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 593
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-007-805-282

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```

RESULT 9
US-10-076-622-282/c
; Sequence 282, Application US/10076622
; Publication NO. US20030023036A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C11
; CURRENT APPLICATION NUMBER: US/10/076,622
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-076-622-282

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RESULT 10  
US-10-097-340-74/c  
Sequence 74, Application US/10097340  
Publication No. US20030087250A1  
GENERAL INFORMATION:  
APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNAVAPU  
APPLICANT: Sebastian HOERSCH  
APPLICANT: Shubhangi KAWATKAR  
APPLICANT: Steve G. KOVATS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. EAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen ZHANG  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
Assessment, Prevention, and Therapy of Ovarian Cancer  
FILE REFERENCE: MRI-030  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FASTSEQ for Windows Version 4.0

; SEQ ID NO 74  
; LENGTH: 1907  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-097-340-74

Query Match 100.0%; Score 21; DB 15; Length 1907;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCGGCTCAG 21  
Db 1100 GTACCTCATGCGCGGCTCAG 1080

## RESULT 11

US-09-964-824A-101/c  
; Sequence 101, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 583  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 101  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-101

Query Match 100.0%; Score 21; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCGGCTCAG 21  
Db 1124 GTACCTCATGCGCGGCTCAG 1104

## RESULT 12

US-09-964-824A-563/c  
; Sequence 563, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 583  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 563  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-563

Query Match 100.0%; Score 21; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCGGCTCAG 21  
Db 1124 GTACCTCATGCGCGGCTCAG 1104

## RESULT 13

US-09-880-107-3420/c  
; Sequence 3420, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3420  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843  
US-09-880-107-3420

Query Match 100.0%; Score 21; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTACCTCATGCGCGGCTCAG 21  
Db 1124 GTACCTCATGCGCGGCTCAG 1104

## RESULT 14

US-09-967-768A-192/c  
; Sequence 192, Application US/09967768A  
; Patent No. US20020150877A1  
; GENERAL INFORMATION:  
; APPLICANT: Augustus, Meena  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat  
; FILE REFERENCE: 689290-72  
; CURRENT APPLICATION NUMBER: US/09/967,768A  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,109  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,034  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,111  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 325  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 192  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-967-768A-192

Query Match 100.0%; Score 21; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 0.65;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GTACCTCATGCGCGGCTCAG 21  
Db 1124 GTACCTCATGCGCGGCTCAG 1104

## RESULT 15

US-09-922-217-1105/c  
; Sequence 1105, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stoik, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, AiJun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1105  
; LENGTH: 1917  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-1105

Query Match 100.0%; Score 21; DB 9; Length 1917;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTACCTCATGCGCGGCTCAG 21  
Db 1126 GTACCTCATGCGCGGCTCAG 1106

Search completed: February 13, 2004, 11:48:34  
Job time : 16.4034 secs

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1	21	100.0	275	15	US-10-060-036-3261	Sequence 3261, Ap
2	21	100.0	499	10	US-09-998-598-2230	Sequence 2230, Ap
3	21	100.0	502	9	US-09-604-387A-282	Sequence 282, App
4	21	100.0	502	10	US-09-339-338-282	Sequence 282, App
5	21	100.0	502	11	US-09-551-621-282	Sequence 282, App
6	21	100.0	502	13	US-10-124-805-282	Sequence 282, App
7	21	100.0	502	14	US-10-007-805-282	Sequence 282, App
8	21	100.0	502	15	US-10-076-622-282	Sequence 282, App
9	21	100.0	1435	12	US-10-292-798-1601	Sequence 1601, Ap
10	21	100.0	1435	13	US-10-017-161-1953	Sequence 1953, Ap
11	21	100.0	1907	15	US-10-037-340-74	Sequence 74, Appl
12	21	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
13	21	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
14	21	100.0	1915	10	US-09-880-107-3420	Sequence 3420, Ap
15	21	100.0	1915	10	US-09-957-768A-192	Sequence 192, App

RESULT 2  
US-09-938-598-2290/c  
; Sequence 2290, Application US/09998598  
; Patent No. US20020150922A1  
; GENERAL INFORMATION:

```
; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.470C1
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 2290
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-2290

Query Match      100.0%; Score 21; DB 10; Length 499;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCGGGACATCTCTCATCCACCC 21
      |||||
DB      324 CCGGGACATCTCTCATCCACCC 304

RESULT 3
US-09-604-287A-282
; Sequence 282, Application US/09604287A
; Patent No. US20020064872A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604,287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-604-287A-282

Query Match      100.0%; Score 21; DB 9; Length 502;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCGGGACATCTCTCATCCACCC 21
      |||||
DB      290 CCGGGACATCTCTCATCCACCC 310

RESULT 4
US-09-339-338-282
; Sequence 282, Application US/09339338A
; Patent No. US20020102602A1
; GENERAL INFORMATION:
; APPLICANT: Yugu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23

; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.470C1
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 2290
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-2290

Query Match      100.0%; Score 21; DB 10; Length 499;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCGGGACATCTCTCATCCACCC 21
      |||||
DB      324 CCGGGACATCTCTCATCCACCC 304

RESULT 5
US-09-551-621-282
; Sequence 282, Application US/09551621
; Publication No. US20030104366A1
; GENERAL INFORMATION:
; APPLICANT: Yuqui, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C5
; CURRENT APPLICATION NUMBER: US/09/551,621
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-551-621-282

Query Match      100.0%; Score 21; DB 11; Length 502;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCGGGACATCTCTCATCCACCC 21
      |||||
DB      290 CCGGGACATCTCTCATCCACCC 310

RESULT 6
US-10-124-805-282
; Sequence 282, Application US/10124805
; Publication No. US20030166022A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C12
; CURRENT APPLICATION NUMBER: US/10/124,805
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 282
; LENGTH: 502
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-124-805-282

Query Match      100.0%; Score 21; DB 13; Length 502;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 CCGGACATCTCTCATCCACC 21  
 Db 290 CCGGACATCTCTCATCCACC 310

RESULT 7

US-10-007-805-282  
 ; Sequence 282, Application US/10007805  
 ; Publication No. US20020150581A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Dillon, Devin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Hepler, William T.  
 ; APPLICANT: Henderson, Robert A.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick, Thomas S.  
 ; APPLICANT: McNeill, Patricia D.  
 ; APPLICANT: Durham, Margareta  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.470C10  
 ; CURRENT APPLICATION NUMBER: US/10/007.805  
 ; CURRENT FILING DATE: 2001-12-07  
 ; NUMBER OF SEQ ID NOS: 593  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-007-805-282

Query Match 100.0%; Score 21; DB 14; Length 502;  
 Best Local Similarity 100.0%; Pred. No. 2.4;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACC 21  
 Db 290 CCGGACATCTCTCATCCACC 310

RESULT 8

US-10-076-622-282  
 ; Sequence 282, Application US/10076622  
 ; Publication No. US20030023036A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Houghton, Raymond L.  
 ; APPLICANT: Sleath, Paul R.  
 ; APPLICANT: Persing, David H.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.470C11  
 ; CURRENT APPLICATION NUMBER: US/10/076.622  
 ; CURRENT FILING DATE: 2002-02-13  
 ; NUMBER OF SEQ ID NOS: 627  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 282  
 ; LENGTH: 502  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-076-622-282

Query Match 100.0%; Score 21; DB 15; Length 502;  
 Best Local Similarity 100.0%; Pred. No. 2.4;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACC 21  
 Db 290 CCGGACATCTCTCATCCACC 310

RESULT 9

US-10-292-798-1601/c  
 ; Sequence 1601, Application US/10292798  
 ; Publication No. US20030235833A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SUMA, MAKIKO  
 ; APPLICANT: ASAI, KIYOSHI  
 ; APPLICANT: AKIYAMA, YUTAKA  
 ; APPLICANT: ABURATANI, HIROYUKI  
 ; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS  
 ; FILE REFERENCE: 084335/166  
 ; CURRENT APPLICATION NUMBER: US/10/292.798  
 ; CURRENT FILING DATE: 2002-11-13  
 ; PRIOR APPLICATION NUMBER: 10/017,161  
 ; PRIOR FILING DATE: 2001-12-18  
 ; PRIOR APPLICATION NUMBER: JP 2001-246789  
 ; PRIOR FILING DATE: 2001-06-18  
 ; NUMBER OF SEQ ID NOS: 2070  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1601  
 ; LENGTH: 1435

; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; LOCATION: source  
 ; FEATURE:  
 ; LOCATION: (1)..(1435)  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (201)..(1235)  
 ; FEATURE:  
 ; NAME/KEY: modified base  
 ; LOCATION: (1040)..(1139)  
 ; OTHER INFORMATION: a, t, c, g, unknown or other  
 ; NAME/KEY: modified base  
 ; LOCATION: (1145)..(1145)  
 ; OTHER INFORMATION: a, t, c, g, unknown or other  
 ; US-10-292-798-1601

Query Match 100.0%; Score 21; DB 12; Length 1435;  
 Best Local Similarity 100.0%; Pred. No. 2.4;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTCATCCACC 21  
 Db 335 CCGGACATCTCTCATCCACC 315

RESULT 10

US-10-017-161-1953/c  
 ; Sequence 1953, Application US/10017161  
 ; Publication No. US20030143668A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SUMA, MAKIKO  
 ; APPLICANT: ASAI, KIYOSHI  
 ; APPLICANT: AKIYAMA, YUTAKA  
 ; APPLICANT: ABURATANI, HIROYUKI  
 ; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS  
 ; FILE REFERENCE: 084335/0152  
 ; CURRENT APPLICATION NUMBER: US/10/017,161  
 ; CURRENT FILING DATE: 2002-12-18  
 ; PRIOR APPLICATION NUMBER: JP 2001/246789  
 ; PRIOR FILING DATE: 2001-06-18  
 ; NUMBER OF SEQ ID NOS: 2430  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1953  
 ; LENGTH: 1435

; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: source

LOCATION: (1)...(1435)  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (201)...(1235)  
 FEATURE:  
 NAME/KEY: modified base  
 LOCATION: (1040)...(1139)  
 OTHER INFORMATION: a, t, c, g, unknown or other  
 FEATURE:  
 NAME/KEY: modified\_base  
 LOCATION: (1145)  
 OTHER INFORMATION: a, t, c, g, unknown or other  
 US-10-017-161-1953

Query Match 100.0%; Score 21; DB 13; Length 1435;  
 Best Local Similarity 100.0%; Pred. No. 2.4;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACC 21  
 Db 335 CCGGACATCTCTATCCACC 315

RESULT 11  
 US-10-097-340-74

; Sequence 74, Application US/10097340  
 ; Publication No. US20030087250A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: John MONAHAN  
 ; APPLICANT: Manjula GANNAVARAPU  
 ; APPLICANT: Sebastian HOERSCH  
 ; APPLICANT: Shubhangi KAWATKAR  
 ; APPLICANT: Steve G. KOVATS  
 ; APPLICANT: Rachel E. MEYERS  
 ; APPLICANT: Michael MORRISSEY  
 ; APPLICANT: Peter OLANDT  
 ; APPLICANT: Ami SEN  
 ; APPLICANT: Peter VEIBY  
 ; APPLICANT: Gordon B. MILLS  
 ; APPLICANT: Robert C. BAST, Jr.  
 ; APPLICANT: Karen LU  
 ; APPLICANT: Rosemarie SCHMANDT  
 ; APPLICANT: Xumei ZHAO  
 ; APPLICANT: Karen GLATT  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
 ; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
 ; FILE REFERENCE: MRI-030  
 ; CURRENT APPLICATION NUMBER: US/10/097,340  
 ; CURRENT FILING DATE: 2002-03-14  
 ; PRIOR APPLICATION NUMBER: 60/276,025  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/325,149  
 ; PRIOR FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/276,026  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/324,967  
 ; PRIOR FILING DATE: 2001/09/26  
 ; PRIOR APPLICATION NUMBER: 60/311,732  
 ; PRIOR FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: 60/325,102  
 ; PRIOR FILING DATE: 2001-09-26  
 ; PRIOR APPLICATION NUMBER: 60/323,580  
 ; PRIOR FILING DATE: 2001-09-19  
 ; NUMBER OF SEQ ID NOS: 363  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 74  
 ; LENGTH: 1907  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-097-340-74

Query Match 100.0%; Score 21; DB 15; Length 1907;  
 Best Local Similarity 100.0%; Pred. No. 2.3;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 CCGGACATCTCTATCCACC 21  
 Db 932 CCGGACATCTCTATCCACC 952

RESULT 12  
 US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horrigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A  
 ; CURRENT FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: Patent in version 3.0  
 ; SEQ ID NO 101  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-964-824A-101

Query Match 100.0%; Score 21; DB 10; Length 1915;  
 Best Local Similarity 100.0%; Pred. No. 2.3;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACC 21  
 Db 956 CCGGACATCTCTATCCACC 976

RESULT 13  
 US-09-964-824A-563  
 ; Sequence 563, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horrigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A  
 ; CURRENT FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: Patent in version 3.0  
 ; SEQ ID NO 563  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-964-824A-563

Query Match 100.0%; Score 21; DB 10; Length 1915;  
 Best Local Similarity 100.0%; Pred. No. 2.3;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCTCTATCCACC 21  
 Db 956 CCGGACATCTCTATCCACC 976



Job time : 13.4034 secs

## RESULT 14

US-09-880-107-3420  
; Sequence 3420, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5828-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3420  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843  
US-09-880-107-3420

Query Match 100.0%; Score 21; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCCTCATCCACC 21  
Db 956 CCGGACATCCTCATCCACC 976

## RESULT 15

US-09-967-768A-192  
; Sequence 192, Application US/09967768A  
; Patent No. US20020150877A1  
; GENERAL INFORMATION:  
; APPLICANT: Augustus, Meena  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-72  
; CURRENT APPLICATION NUMBER: US/09/967,768A  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,109  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,034  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,111  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 325  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 192  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-967-768A-192

Query Match 100.0%; Score 21; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGACATCCTCATCCACC 21  
Db 956 CCGGACATCCTCATCCACC 976

Search completed: February 13, 2004, 11:48:25

GenCore version 5.1.6  
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# OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 12, 2004, 21:34:51 ; Search time 25.2461 Seconds  
(without alignments)  
2334.540 Million cell updates/sec

Title: US-08-978-217-12  
Perfect score: 84  
Sequence: 1 KNSGCKEELQSRN 16

Scoring table: BLOSUM62  
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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-DB=Published Applications NA -QWFFX=rnpb -MINMATCH=0.1  
-LOOPCI=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62  
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-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pco -NORM=ext -HEAPSZE=500 -MINLEN=0  
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-NCPUS=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

## Database :

Published Applications NA:  
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15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
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1	84	100.0	237	12	US-10-305-720-927	Sequence 927, App
2	84	100.0	451	10	US-09-998-598-32	Sequence 32, Appl
3	84	100.0	439	10	US-09-998-598-2290	Sequence 2290, Ap
4	84	100.0	528	15	US-10-068-543-3233	Sequence 3233, Ap
5	84	100.0	620	15	US-10-067-038-2379	Sequence 2379, Ap
6	84	100.0	1907	15	US-10-097-340-74	Sequence 74, Appl
7	84	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
8	84	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
9	84	100.0	1915	10	US-09-880-107-3420	Sequence 3420, Ap
10	84	100.0	1915	10	US-09-967-768A-192	Sequence 192, App
11	84	100.0	1917	9	US-09-922-217-1105	Sequence 1105, Ap
12	84	100.0	1917	14	US-10-025-380-1105	Sequence 1105, Ap
13	84	100.0	1956	12	US-10-264-049-756	Sequence 756, App
14	84	100.0	1996	9	US-09-925-301-207	Sequence 207, App
15	84	100.0	2269	12	US-10-131-410-64	Sequence 64, Appl
16	57	67.9	1681	11	US-09-986-480-40	Sequence 40, Appl
17	52	61.9	1601	12	US-10-063-674-1730	Sequence 1730, Ap
18	50	59.5	535	13	US-10-029-386-3052	Sequence 3052, Ap
19	50	59.5	11788	13	US-10-316-253-263	Sequence 263, App
20	49	58.3	807	13	US-10-027-632-167020	Sequence 167020,
21	48	57.1	174	10	US-09-933-797-678	Sequence 678, App
22	47	56.0	402	11	US-09-918-995-33421	Sequence 33421, A
23	47	56.0	254366	11	US-09-822-871-3	Sequence 3, Appli
24	46.5	55.4	787	13	US-10-027-632-125191	Sequence 125191,
25	46.5	55.4	787	14	US-10-027-632-125191	Sequence 125191,
26	46	54.8	552	13	US-10-027-632-90917	Sequence 90917, A
27	46	54.8	552	14	US-10-027-632-90917	Sequence 90917, A
28	46	54.8	552	14	US-09-938-842A-4493	Sequence 4493, Ap
29	46	54.8	1571	12	US-09-938-842A-4493	Sequence 4493, Ap
30	46	54.8	3060	10	US-09-938-842A-760	Sequence 760, App
31	46	54.8	3060	12	US-09-938-842A-760	Sequence 760, App
32	46	54.8	3096	13	US-10-027-632-112161	Sequence 112161,
33	46	54.8	3096	13	US-10-027-632-112162	Sequence 112162,
34	46	54.8	3096	13	US-10-027-632-113958	Sequence 113958,
35	46	54.8	3096	13	US-10-027-632-113958	Sequence 113958,
36	46	54.8	3096	14	US-10-027-632-112161	Sequence 112161,
37	46	54.8	3096	14	US-10-027-632-112162	Sequence 112162,
38	46	54.8	3096	14	US-10-027-632-113958	Sequence 113958,
39	46	54.8	3096	14	US-10-027-632-113958	Sequence 113958,
40	46	54.8	8100	13	US-09-190-246-4	Sequence 4, Appli
41	46	54.8	10610	11	US-09-994-412-3	Sequence 3, Appli
42	46	54.8	11517	10	US-09-901-106-1	Sequence 1, Appli
43	46	54.8	15538	13	US-09-190-246-1	Sequence 1, Appli
44	46	54.8	15538	13	US-09-983-965-4018	Sequence 4018, Ap
45	45	53.6	463	10		

## ALIGNMENTS

RESULT 1  
US-10-305-720-927  
; Sequence 927, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expressio  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR FILING DATE: 2002-11-26  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 927  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 773734  
US-10-305-720-927

Alignment Scores:

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Pred. No.: 3,23e-06 Length: 237
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 12 Gaps: 0

US-08-978-217-12 (1-16) x US-10-305-720-927 (1-237)

Qy 1 LysAsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 116 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 163

RESULT 2
US-09-998-598-32
; Sequence 32, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 32
; LENGTH: 451
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-32

Alignment Scores:
Pred. No.: 6.43e-06 Length: 451
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-998-598-32 (1-451)

Qy 1 LysAsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 170 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 217

RESULT 3
US-09-998-598-2290/c
; Sequence 2290, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 2290
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-2290

Alignment Scores:
Pred. No.: 7.17e-06 Length: 499

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Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-998-598-2290 (1-499)

Qy 1 LysAsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 95 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 48

RESULT 4
US-10-066-543-3233
; Sequence 3233, Application US/10066543
; Publication No. US20030087818A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Pye, Ruth A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Indrias, Carol Yoseph
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Carter, Darrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Smith, Carole L.
; APPLICANT: Durham, Margarita
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.563
; CURRENT APPLICATION NUMBER: US/10/066,543
; CURRENT FILING DATE: 2002-01-31
; NUMBER OF SEQ ID NOS: 3417
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3233
; LENGTH: 528
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 438
; OTHER INFORMATION: n = A,T,C or G
US-10-066-543-3233

Alignment Scores:
Pred. No.: 7.62e-06 Length: 528
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-066-543-3233 (1-528)

Qy 1 LysAsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 16
Db 63 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 110

RESULT 5
US-10-060-036-2379
; Sequence 2379, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
; FILE REFERENCE: 210121.566

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; CURRENT APPLICATION NUMBER: US/10/060,036  
; CURRENT FILING DATE: 2002-01-30  
; NUMBER OF SEQ ID NOS: 4560  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2379  
; LENGTH: 620  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 165, 456, 487, 488, 602  
; OTHER INFORMATION: n = A,T,C or G  
US-10-060-036-2379

Alignment Scores:  
Pred. No.: 9,058-06 Length: 620  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-060-036-2379 (1-620)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16  
Db 63 AAAAATCAAGCGCTGGAAGGAGGAGGTTCTCCAGAGTCGGAAC 110

## RESULT 6

US-10-097-340-74

; Sequence 74, Application US/10097340

; Publication No. US20030087250A1

; GENERAL INFORMATION:

; APPLICANT: John MONAHAN

; APPLICANT: Manjula GANAVARAPU

; APPLICANT: Sebastian HOERSCH

; APPLICANT: Shubhangi KAMATKAR

; APPLICANT: Steve G. KOVATS

; APPLICANT: Rachel E. MEYERS

; APPLICANT: Michael MORRISSEY

; APPLICANT: Peter GLANDT

; APPLICANT: Ami SEN

; APPLICANT: Peter VEIBY

; APPLICANT: Gordon B. MILLS

; APPLICANT: Robert C. EAST, Jr.

; APPLICANT: Karen LU

; APPLICANT: Rosemarie SCHWANDT

; APPLICANT: Xumei ZHAO

; APPLICANT: Karen GLATT

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,

; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer

; FILE REFERENCE: MRI-030

; CURRENT APPLICATION NUMBER: US/10/097,340

; CURRENT FILING DATE: 2002-03-14

; PRIOR APPLICATION NUMBER: 60/276,025

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/325,149

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/276,026

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/324,967

; PRIOR FILING DATE: 2001/09/26

; PRIOR APPLICATION NUMBER: 60/311,732

; PRIOR FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: 60/325,102

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/323,580

; PRIOR FILING DATE: 2001-09-19

; NUMBER OF SEQ ID NOS: 363

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 74

; LENGTH: 1907

; TYPE: DNA

; ORGANISM: Homo sapiens  
US-10-097-340-74

## Alignment Scores:

Pred. No.: 3,028-05 Length: 1907  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 15 Gaps: 0

US-08-978-217-12 (1-16) x US-10-097-340-74 (1-1907)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16  
Db 1161 AAAAATCAAGCGCTGGAAGGAGGAGGTTCTCCAGAGTCGGAAC 1208

## RESULT 7

US-09-964-824A-101

; Sequence 101, Application US/09964824A

; Patent No. US20020102531A1

; GENERAL INFORMATION:

; APPLICANT: Horrigan, Stephen

; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

; FILE REFERENCE: 689290-73

; CURRENT APPLICATION NUMBER: US/09/964,824A

; CURRENT FILING DATE: 2001-09-27

; PRIOR APPLICATION NUMBER: US/60/236,033

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,032

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,028

; PRIOR FILING DATE: 2000-09-28

; NUMBER OF SEQ ID NOS: 583

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 101

; LENGTH: 1915

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-964-824A-101

## Alignment Scores:

Pred. No.: 3,038-05 Length: 1915  
Score: 84.00 Matches: 16  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-964-824A-101 (1-1915)

Qy 1 LysAsnSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16  
Db 1185 AAAAATCAAGCGCTGGAAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

## RESULT 8

US-09-964-824A-563

; Sequence 563, Application US/09964824A

; Patent No. US20020102531A1

; GENERAL INFORMATION:

; APPLICANT: Horrigan, Stephen

; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

; FILE REFERENCE: 689290-73

; CURRENT APPLICATION NUMBER: US/09/964,824A

; CURRENT FILING DATE: 2001-09-27

; PRIOR APPLICATION NUMBER: US/60/236,033

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,032

; PRIOR FILING DATE: 2000-09-28

; PRIOR APPLICATION NUMBER: US/60/236,028

; PRIOR FILING DATE: 2000-09-28

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; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-563

Alignment Scores:
Pred. No.: 3.03e-05      Length: 1915
Score: 84.00             Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-964-824A-563 (1-1915)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 9
US-09-880-107-3420
; Sequence 3420, Application US/09980107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Dargi T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880.107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420

Alignment Scores:
Pred. No.: 3.03e-05      Length: 1915
Score: 84.00             Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-880-107-3420 (1-1915)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 10
US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
US-09-967-768A-192
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; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

Alignment Scores:
Pred. No.: 3.03e-05      Length: 1915
Score: 84.00             Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-12 (1-16) x US-09-967-768A-192 (1-1915)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1185 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1232

RESULT 11
US-09-922-217-1105
; Sequence 1105, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yudi
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-1105

Alignment Scores:
Pred. No.: 3.03e-05      Length: 1917
Score: 84.00             Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-09-922-217-1105 (1-1917)

Qy 1 LysAsnSerSerglyTrrLysGluGluValLeuGlnSerArgAsn 16
Db 1187 AAAAACTCAAGCGGCTGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1234
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```
RESULT 12
US-10-025-380-1105
; Sequence 1105, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Ranger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1105
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-1105

Alignment Scores:
Pred. No.: 3,03e-05 Length: 1917
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-08-978-217-12 (1-16) x US-10-025-380-1105 (1-1917)

QY 1 LysAsnSerSerGlyTTPyGluGluValLeuGlnSerArgAsn 16
DB 1187 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1234

RESULT 13
US-10-264-049-756
; Sequence 756, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR FILING DATE: 2001-06-07
; PRIOR FILING DATE: 2001-06-07
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 756
; LENGTH: 1956
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-049-756

Alignment Scores:
Pred. No.: 3.1e-05 Length: 1956
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0
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```
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 12 Gaps: 0

US-08-978-217-12 (1-16) x US-10-264-049-756 (1-1956)

QY 1 LysAsnSerSerGlyTTPyGluGluValLeuGlnSerArgAsn 16
DB 1226 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1273

RESULT 14
US-09-925-301-207
; Sequence 207, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 207
; LENGTH: 1996
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-207

Alignment Scores:
Pred. No.: 3.17e-05 Length: 1996
Score: 84.00 Matches: 16
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-12 (1-16) x US-09-925-301-207 (1-1996)

QY 1 LysAsnSerSerGlyTTPyGluGluValLeuGlnSerArgAsn 16
DB 1206 AAAAATCAAGCGCTGGAGGAGGAGGAGGTTCTCCAGAGTCGGAAC 1253

RESULT 15
US-10-131-410-64
; Sequence 64, Application US/10131410
; Publication No. US20030235915A1
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
; FILE REFERENCE: SCH-1763
; CURRENT APPLICATION NUMBER: US/10/131,410
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 09/646,673
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: PCT/DE99/00908
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 202
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 2269
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-131-410-64

Alignment Scores:  
 Pred. No.: 3.63e-05 Length: 2269  
 Score: 84.00 Matches: 16  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 12 Gaps: 0

US-08-978-217-12 (1-16) x US-10-131-410-64 (1-2269)

Qy 1 LysSerSerGlyTrpLysGluGluValLeuGlnSerArgAsn 16  
 DB 916 AAAAACTCAGCGGTGGAGGAGAGGTTCTCCAGAGTCGGAAC 963

Search completed: February 13, 2004, 01:46:08  
 Job time : 28.2461 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 12, 2004, 21:34:51 / Search time 132.542 Seconds  
(without alignments)  
2334.540 Million cell updates/sec

Title: US-08-978-217-7

Perfect score: 445

Sequence: 1 NCALBELRLVFGPLGQLHA.....ELLDDGQASYPHFGSCGAG 84

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Ygapop 10.0, Ygapext 0.5  
Fgapop 6.0, Fgapext 7.0  
Delop 6.0, Delext 7.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-TRANS=human40 cdi -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100  
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Published Applications NA:  
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6: /cgn2\_6/ptodata/1/pubna/FCI05\_PUBCOMB.seq\*  
7: /cgn2\_6/ptodata/1/pubna/US08\_NEW\_PUB.seq\*  
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11: /cgn2\_6/ptodata/1/pubna/US09C\_PUBCOMB.seq\*  
12: /cgn2\_6/ptodata/1/pubna/US09\_NEW\_PUB.seq\*  
13: /cgn2\_6/ptodata/1/pubna/US09\_NEW\_PUB.seq2\*  
14: /cgn2\_6/ptodata/1/pubna/US10A\_PUBCOMB.seq\*  
15: /cgn2\_6/ptodata/1/pubna/US10B\_PUBCOMB.seq\*  
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17: /cgn2\_6/ptodata/1/pubna/US60\_NEW\_PUB.seq\*  
18: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match Length	ID	Description
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RESULT 1  
US-09-922-217-944/c  
; Sequence 944, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

APPLICANT: Lodes, Michael J.

APPLICANT: Scrist, Heather

APPLICANT: Benson, Darin R.

APPLICANT: Meagher, Madeleine Joy

APPLICANT: Stolk, John A.

APPLICANT: Wang, Tongtong

APPLICANT: Jiang, Yuqiu

APPLICANT: Smith, Carole Lynn

APPLICANT: King, Gordon E.

APPLICANT: Wang, Aijun

APPLICANT: Clapper, Jonathan D.

TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

FILE REFERENCE: 210121.471C13

CURRENT APPLICATION NUMBER: US/09/922,217

CURRENT FILING DATE: 2001-08-03

NUMBER OF SEQ ID NOS: 1124

SOFTWARE: FastSEQ for Windows Version 4.0

## ALIGNMENTS

Sequence 944, App  
Sequence 944, App  
Sequence 944, App  
Sequence 853, App  
Sequence 853, App  
Sequence 853, App  
Sequence 74, Appl  
Sequence 101, App  
Sequence 563, App  
Sequence 3420, App  
Sequence 192, App  
Sequence 1105, App  
Sequence 756, App  
Sequence 207, App  
Sequence 64, Appl  
Sequence 4818, App  
Sequence 1740, App  
Sequence 2216, App  
Sequence 199194, App  
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Sequence 36824, A  
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Sequence 139, App  
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Sequence 139, App  
Sequence 139, App  
Sequence 92, Appl  
Sequence 92, Appl  
Sequence 92, Appl

9 US-09-922-217-944  
10 US-09-833-263-944  
14 US-10-025-380-944  
9 US-09-922-217-853  
626 14 US-09-833-263-853  
626 14 US-10-025-380-853  
1907 15 US-10-097-340-74  
1915 10 US-09-964-824A-101  
1915 10 US-09-964-824A-563  
1915 10 US-09-880-107-3420  
1915 10 US-09-967-768A-192  
9 US-09-922-217-1105  
1917 9 US-10-025-380-1105  
1956 12 US-10-264-049-756  
9 US-09-925-301-207  
12 US-10-131-410-64  
12 US-09-867-701-4818  
174 10 US-09-998-598-1740  
437 10 US-09-998-598-2216  
641 13 US-10-027-632-199194  
641 13 US-10-027-632-199195  
641 13 US-10-027-632-199196  
641 13 US-10-027-632-199197  
641 13 US-10-027-632-199198  
641 14 US-10-027-632-199199  
641 14 US-10-027-632-199199  
641 14 US-10-027-632-199197  
641 14 US-10-027-632-199198  
1341 15 US-10-156-761-5009  
9025608 15 US-10-156-761-1  
1005 12 US-10-369-493-40562  
353 9 US-09-864-761-3195  
398 15 US-10-144-649A-697  
398 15 US-09-918-995-36824  
407 11 US-09-918-995-16413  
521 11 US-09-884-441-139  
521 11 US-09-907-969-139  
521 11 US-09-827-271-139  
521 13 US-10-198-053-139  
551 10 US-09-884-441-92  
551 11 US-09-907-969-92  
551 13 US-09-827-271-92  
551 15 US-10-198-053-92



```

; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

Alignment Scores:
Pred. No.: 1.02e-55 Length: 563
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 5 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-944 (1-563)
QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 472 AATTGTGCCCTTGGAGGAGTGGCTGCTGTTTGGGCGCTTGGGGACCACTCCATGCC 413
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuLeu 40
Db 412 CAGCTGGAGACCTCACTTCCAGGAGGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACCAAGGCAGC 353
QY 41 GluLeuArgAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 352 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACCAAGGCAGC 293
QY 61 PropheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db 292 CCCTTTGCCAGGAGCTGTGGACGAGCGGTTCAGCAAGCCAGGCGCCCTTACCAAGGCAGC 233
QY 81 CysGlyAlaGly 84
Db 232 TGTGGCGCAGGA 221

RESULT 2
US-09-833-263-944/c
; Sequence 944, Application US/09833263
; Patent No. US20020110347A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Meagher, Madeleine J.
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-944

Alignment Scores:
Pred. No.: 1.02e-55 Length: 563
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-08-978-217-7 (1-84) x US-09-833-263-944 (1-563)
QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 472 AATTGTGCCCTTGGAGGAGTGGCTGCTGTTTGGGCGCTTGGGGACCACTCCATGCC 413
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuLeu 40

; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

Alignment Scores:
Pred. No.: 1.02e-55 Length: 563
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 5 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-944 (1-563)
QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 472 AATTGTGCCCTTGGAGGAGTGGCTGCTGTTTGGGCGCTTGGGGACCACTCCATGCC 413
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuLeu 40
Db 412 CAGCTGGAGACCTCACTTCCAGGAGGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACCAAGGCAGC 353
QY 41 GluLeuArgAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 352 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACCAAGGCAGC 293
QY 61 PropheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db 292 CCCTTTGCCAGGAGCTGTGGACGAGCGGTTCAGCAAGCCAGGCGCCCTTACCAAGGCAGC 233
QY 81 CysGlyAlaGly 84
Db 232 TGTGGCGCAGGA 221

RESULT 3
US-10-025-380-944/c
; Sequence 944, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-944

Alignment Scores:
Pred. No.: 1.02e-55 Length: 563
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 14 Gaps: 0

US-08-978-217-7 (1-84) x US-10-025-380-944 (1-563)
QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 472 AATTGTGCCCTTGGAGGAGTGGCTGCTGTTTGGGCGCTTGGGGACCACTCCATGCC 413
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleleGluLeuLeu 40
Db 412 CAGCTGGAGACCTCACTTCCAGGAGGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACCAAGGCAGC 353
QY 41 GluLeuArgAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 352 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTTCCAGGAGGCGCTAGACCCAGGCGCCCTTTGACCAAGGCAGC 293
QY 61 PropheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80

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Db 292 CCCTTTGCCAGAGCTGCTGGACGAGCTCAGACGAGCCCTACCAACCCCGGACG 233  
QY 81 CysGlyAlaGly 84  
Db 232 TGTGGCGCAGGA 221

## RESULT 4

US-09-922-217-853/c  
; Sequence 853, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 853  
; LENGTH: 626  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-853

Alignment Scores:  
Pred. No.: 1.16e-55 Length: 626  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-853 (1-626)

QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
Db 471 AATTGTGCCCTTGAGGAGCTGGCTCTGTCTTTGGGCTCTGGGGACCACTCCATGCC 412  
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuGluLeu 40  
Db 411 CAGCTCGAGACCTCACTTCCAGCTCTTCTGTAGAGCTCAGTTGGATCATTGAGCTGCTG 352  
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
Db 351 GAGAGGATGGCATGGCTTCCAGAGGCTTAGACCCAGGCGCTTTGACCCAGGCGCAGC 292  
QY 61 PropheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 291 CCCTTTGCCAGAGCTGCTGGACGAGCTGAGCGGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 232  
QY 81 CysGlyAlaGly 84  
Db 231 TGTGGCGCAGGA 220

## RESULT 5

US-09-833-263-853/c  
; Sequence 853, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 853  
; LENGTH: 626  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-833-263-853

Alignment Scores:  
Pred. No.: 1.16e-55 Length: 626  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-08-978-217-7 (1-84) x US-09-833-263-853 (1-626)

QY 1 AsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
Db 471 AATTGTGCCCTTGAGGAGCTGGCTCTGTCTTTGGGCTCTGGGGACCACTCCATGCC 412  
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuGluLeu 40  
Db 411 CAGCTCGAGACCTCACTTCCAGCTCTTCTGTAGAGCTCAGTTGGATCATTGAGCTGCTG 352  
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
Db 351 GAGAGGATGGCATGGCTTCCAGAGGCTTAGACCCAGGCGCTTTGACCCAGGCGCAGC 292  
QY 61 PropheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 291 CCCTTTGCCAGAGCTGCTGGACGAGCTGAGCGGCTCAGCAAGCCAGCCCTTACCAACCCCGGACG 232  
QY 81 CysGlyAlaGly 84  
Db 231 TGTGGCGCAGGA 220

## RESULT 6

US-10-025-380-853/c  
; Sequence 853, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0



```

? GENERAL INFORMATION:
?
? APPLICANT: Augustus, Meena
? TITLE OF INVENTION: Cancer Gene Determinant:
?
? TITLE OF INVENTION: Sets
?
? FILE REFERENCE: 689390-72
?
? CURRENT APPLICATION NUMBER: US/09/967,768A
?
? CURRENT FILING DATE: 2001-09-28
?

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; PRIOR APPLICATION NUMBER: US/60/236,109  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,034  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,111  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 325  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 192  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-967-768A-192

Alignment Scores:  
 Pred. No.: 4,86e-55 Length: 1915  
 Score: 445.00 Matches: 84  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US-08-978-217-7 (1-84) x US-09-967-768A-192 (1-1915)

Qy 1 AsnCysAlaLeuGluLeuAArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
 Db 429 AATTGTGCTTGGAGAGTGGCTGCTGCTTTTGGGCGCTTGGGGGACCAACTCCATGCC 488  
 Qy 21 GlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerSerSerSerSerSerSer 40  
 Db 489 CAGCTGGACACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG 548  
 Qy 41 GluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
 Db 549 GAGAAAGGATGGCATGGCTTCCAGGAGCGCTGAGAGCGCTTCCAGGAGCGCTTCCAGGAGCG 608  
 Qy 61 ProPheAlaGlnGluLeuAspAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
 Db 609 CCCCTTCCAGGAGCTGCTGAGAGCGGTGAGAGCGGTGAGAGCGGTGAGAGCGGTGAGAGCG 668  
 Qy 81 CysGlyAlaGly 84  
 Db 669 TGTGGCGCAGGA 680

# RESULT 12

US-09-922-217-1105  
 ; Sequence 1105, Application US/09922217  
 ; Patent No. US2002067414A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yuqiu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922,217  
 ; CURRENT FILING DATE: 2001-08-03  
 ; NUMBER OF SEQ ID NOS: 1124  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1105  
 ; LENGTH: 1917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-922-217-1105

Alignment Scores:  
 Pred. No.: 4,86e-55 Length: 1917  
 Score: 445.00 Matches: 84  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-1105 (1-1917)

Qy 1 AsnCysAlaLeuGluLeuAArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
 Db 431 AATTGTGCTTGGAGAGTGGCTGCTGCTTTTGGGCGCTTGGGGGACCAACTCCATGCC 490  
 Qy 21 GlnLeuArgAspLeuThrSerSerSerSerSerSerSerSerSerSerSerSerSerSer 40  
 Db 491 CAGCTGGACACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTG 550  
 Qy 41 GluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
 Db 551 GAGAAAGGATGGCATGGCTTCCAGGAGCGCTTCCAGGAGCGCTTCCAGGAGCGCTTCCAGGAGCG 610  
 Qy 61 ProPheAlaGlnGluLeuAspAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
 Db 611 CCCCTTCCAGGAGCTGCTGAGAGCGGTGAGAGCGGTGAGAGCGGTGAGAGCGGTGAGAGCG 670  
 Qy 81 CysGlyAlaGly 84  
 Db 671 TGTGGCGCAGGA 682

# RESULT 13

US-10-025-380-1105  
 ; Sequence 1105, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yuqiu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick, Thomas S.  
 ; APPLICANT: Carter, Darick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19  
 ; NUMBER OF SEQ ID NOS: 1129  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1105  
 ; LENGTH: 1917  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-025-380-1105

Alignment Scores:  
 Pred. No.: 4,86e-55 Length: 1917  
 Score: 445.00 Matches: 84  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 14 Gaps: 0

US-08-978-217-7 (1-84) x US-10-025-380-1105 (1-1917)

QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
Db 431 AATTGTGCCCTTGAGGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 490  
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuLeuLeu 40  
Db 491 CAGCTGCGAGACCTCACTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTG 550  
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
Db 551 GAGAAGGATGGCATGGCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCCAGGGCAGC 610  
QY 61 ProPheAlaGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 611 CCTTTGCCAGAGAGCTGTGACGAGCGTTCAGCAGCCCTTACCAACCCCGGCAGC 670  
QY 81 CysGlyAlaGly 84  
Db 671 TGTGGCGCAGGA 682

## RESULT 14

US-10-264-049-756

; Sequence 756, Application US/10264049  
; Publication No. US20040005579A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: P133P1  
; CURRENT APPLICATION NUMBER: US/10/264,049  
; CURRENT FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/19569  
; PRIOR FILING DATE: 2001-06-07  
; PRIOR APPLICATION NUMBER: US 60/209,467  
; PRIOR FILING DATE: 2000-06-07  
; NUMBER OF SEQ ID NOS: 4360  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 756  
; LENGTH: 1956  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-264-049-756

## Alignment Scores:

Pred. No.: 4,99e-55 Length: 1956  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 12 Gaps: 0

US-08-978-217-7 (1-84) x US-10-264-049-756 (1-1956)

QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
Db 470 AATTGTGCCCTTGAGGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 529  
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuLeuLeu 40  
Db 530 CAGCTGCGAGACCTCACTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTG 589  
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
Db 590 GAGAAGGATGGCATGGCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCCAGGGCAGC 649  
QY 61 ProPheAlaGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 650 CCTTTGCCAGAGAGTGTGACGAGCGTTCAGCAGCCCTTACCAACCCCGGCAGC 709  
QY 81 CysGlyAlaGly 84  
Db 710 TGTGGCGCAGGA 721

## RESULT 15

US-09-925-301-207  
; Sequence 207, Application US/09925301  
; Patent No. US20020052308A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: P106  
; CURRENT APPLICATION NUMBER: US/09/925,301  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05882  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1694  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 207  
; LENGTH: 1996  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-301-207

## Alignment Scores:

Pred. No.: 5.12e-55 Length: 1996  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-09-925-301-207 (1-1996)

QY 1 AsnCysAlaLeuGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
Db 450 AATTGTGCCCTTGAGGAGTGGCTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 509  
QY 21 GlnLeuArgAspLeuThrSerSerSerAspGluLeuSerTrpIleLeuLeuLeu 40  
Db 510 CAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTG 569  
QY 41 GluLeuAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60  
Db 570 GAGAAGGATGGCATGGCTTCCAGGAGGCCCTTAGACCCAGGGCCCTTTGACCCAGGGCAGC 629  
QY 61 ProPheAlaGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80  
Db 630 CCTTTGCCAGGAGTGTGACGAGCGTTCAGCAGCCCTTACCAACCCCGGCAGC 689  
QY 81 CysGlyAlaGly 84  
Db 690 TGTGGCGCAGGA 701

Search completed: February 13, 2004, 01:46:05

Job time : 139.542 secs

GenCore version 5.1.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 13, 2004, 01:27:22 ; Search time 88.8409 Seconds  
(without alignments)  
10448.744 Million cell updates/sec

Title: US-08-978-217-6

Perfect score: 252  
Sequence: 1 AATTGTCCTTGGAGAGCT.....CCGGCAGCTGTGGCCGACGA 252

Scoring table: IDENTITY NUC

Gapop 10.0 , Capext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:  
1: /cgn2\_5/ptodata/1/pubpna/US07\_PUBCOMB.seq:  
2: /cgn2\_5/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:  
3: /cgn2\_5/ptodata/1/pubpna/US06\_PUBCOMB.seq:  
4: /cgn2\_5/ptodata/1/pubpna/US06\_PUBCOMB.seq:  
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6: /cgn2\_5/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq:  
7: /cgn2\_5/ptodata/1/pubpna/US08\_NEW\_PUB.seq:  
8: /cgn2\_5/ptodata/1/pubpna/US08\_PUBCOMB.seq:  
9: /cgn2\_5/ptodata/1/pubpna/US09\_PUBCOMB.seq:  
10: /cgn2\_5/ptodata/1/pubpna/US09\_PUBCOMB.seq:  
11: /cgn2\_5/ptodata/1/pubpna/US09\_PUBCOMB.seq:  
12: /cgn2\_5/ptodata/1/pubpna/US09\_NEW\_PUB.seq:  
13: /cgn2\_5/ptodata/1/pubpna/US09\_NEW\_PUB.seq:  
14: /cgn2\_5/ptodata/1/pubpna/US10\_PUBCOMB.seq:  
15: /cgn2\_5/ptodata/1/pubpna/US10\_PUBCOMB.seq:  
16: /cgn2\_5/ptodata/1/pubpna/US10\_NEW\_PUB.seq:  
17: /cgn2\_5/ptodata/1/pubpna/US60\_NEW\_PUB.seq:  
18: /cgn2\_5/ptodata/1/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	252	100.0	563	9	US-09-922-217-944 Sequence 944, App
C 2	252	100.0	563	10	US-09-833-263-944 Sequence 944, App
C 3	252	100.0	563	14	US-10-025-380-944 Sequence 944, App
C 4	252	100.0	626	9	US-09-922-217-853 Sequence 853, App
C 5	252	100.0	626	10	US-09-833-263-853 Sequence 853, App
C 6	252	100.0	626	14	US-10-025-380-853 Sequence 853, App
C 7	252	100.0	1907	15	US-10-097-340-74 Sequence 74, Appl
C 8	252	100.0	1915	10	US-09-964-824A-101 Sequence 101, App
C 9	252	100.0	1915	10	US-09-964-824A-563 Sequence 563, App
C 10	252	100.0	1915	10	US-09-880-107-3420 Sequence 3420, App
C 11	252	100.0	1915	10	US-09-967-768A-192 Sequence 192, App
C 12	252	100.0	1917	9	US-09-922-217-1105 Sequence 1105, App
C 13	252	100.0	1917	14	US-10-025-380-1105 Sequence 1105, App
C 14	252	100.0	1956	12	US-10-264-049-756 Sequence 756, App
C 15	252	100.0	1996	9	US-09-925-301-207 Sequence 207, App

16	252	100.0	2269	12	US-10-131-410-64 Sequence 64, Appl
17	249	98.8	355	10	US-09-867-701-4818 Sequence 4818, App
C 18	174	69.0	174	10	US-09-998-598-1740 Sequence 1740, App
C 19	63	25.0	437	10	US-09-998-598-2216 Sequence 2216, App
20	40.4	16.0	14889	13	US-10-101-510-356 Sequence 356, App
21	40.4	16.0	14896	12	US-10-159-563-206 Sequence 206, App
22	38.8	15.4	532	13	US-10-027-632-280565 Sequence 280565, App
23	38.8	15.4	532	14	US-10-027-632-280565 Sequence 280565, App
24	38.8	15.4	534	13	US-10-029-386-11328 Sequence 11328, A
25	38.8	15.4	1011	13	US-10-029-386-25041 Sequence 25041, A
C 26	38.8	15.4	5173	10	US-09-880-107-3356 Sequence 3356, App
C 27	38.8	15.4	5173	15	US-10-171-581-1396 Sequence 1396, App
28	38.4	15.2	532	13	US-10-027-632-280564 Sequence 280564, App
29	38.4	15.2	532	14	US-10-027-632-280564 Sequence 280564, App
30	37.2	14.8	1413	12	US-10-369-493-37726 Sequence 37726, A
C 31	36.4	14.4	560	13	US-10-027-632-159559 Sequence 159559, App
C 32	36.4	14.4	560	14	US-10-027-632-159559 Sequence 159559, App
C 33	36.2	14.4	1539	13	US-10-259-165-233 Sequence 233, App
34	35.8	14.2	275	9	US-09-923-876-4804 Sequence 4804, App
C 35	35.8	14.2	275	12	US-09-923-876-4804 Sequence 4804, App
C 36	35.2	14.0	13500	9	US-09-962-436-269 Sequence 269, App
C 37	35.2	14.0	13500	10	US-09-954-456-55 Sequence 55, Appl
C 38	35.2	14.0	13500	10	US-09-954-456-1132 Sequence 1132, App
C 39	35.2	14.0	13500	10	US-09-954-456-1801 Sequence 1801, App
C 40	35.2	14.0	13500	10	US-09-880-107-2265 Sequence 2265, App
C 41	35.2	14.0	13500	10	US-09-954-531-145 Sequence 145, App
C 42	35.2	14.0	13500	10	US-09-954-531-363 Sequence 363, App
C 43	35	13.9	19616	10	US-09-810-808-4 Sequence 4, Appl
C 44	35	13.9	19616	10	US-09-764-877-3220 Sequence 3220, App
C 45	35	13.9	19616	12	US-10-242-515-3220 Sequence 3220, App

## ALIGNMENTS

### RESULT 1

US-09-922-217-944/c  
; Sequence 944 Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secretist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stoik, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 944  
; LENGTH: 563  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-944

Query Match 100.0%; Score 252; DB 9; Length 563;  
Best Local Similarity 100.0%; Pred. No. 2.1e-64;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AATTGTCCTTGGAGAGCTGTGGCTTTTGGGCTCTGGGGACCAACTCCATGCC 60  
DB 472 AATTGTCCTTGGAGAGCTGTGGCTTTTGGGCTCTGGGGACCAACTCCATGCC 413

QY 61 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG 120  
 Db |||||  
 QY 412 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG 353  
 Db |||||  
 QY 121 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTAGACCCAGGGCCCTTTGACCAAGGCGCAGC 180  
 Db |||||  
 QY 352 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTAGACCCAGGGCCCTTTGACCAAGGCGCAGC 293  
 Db |||||  
 QY 181 CCCTTTGCCAGGAGCTGCTGGAGGAGGCTCAGCAAGCCAGCCCTTACCAACCCCGGCAGC 240  
 Db |||||  
 QY 292 CCCTTTGCCAGGAGCTGCTGGAGGAGGCTCAGCAAGCCAGCCCTTACCAACCCCGGCAGC 233  
 Db |||||  
 QY 241 TGTGGCGCAGGA 252  
 Db |||||  
 QY 232 TGTGGCGCAGGA 221

## RESULT 2

US-09-833-263-944/c  
 ; Sequence 944, Application US/09833263  
 ; Patent No. US20020110547A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Stolk, John A.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C12  
 ; CURRENT APPLICATION NUMBER: US/09/833,263  
 ; CURRENT FILING DATE: 2001-04-10  
 ; NUMBER OF SEQ ID NOS: 1093  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 944  
 ; LENGTH: 563  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; US-09-833-263-944

Query Match 100.0%; Score 252; DB 10; Length 563;  
 Best Local Similarity 100.0%; Pred. No. 2.1e-64;  
 Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 AATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 60  
 Db 472 AATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 413  
 QY 61 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG 120  
 Db 412 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG 353  
 QY 121 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTAGACCCAGGGCCCTTTGACCAAGGCGCAGC 180  
 Db 352 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTAGACCCAGGGCCCTTTGACCAAGGCGCAGC 293  
 QY 181 CCCTTTGCCAGGAGCTGCTGGAGGAGGCTCAGCAAGCCAGCCCTTACCAACCCCGGCAGC 240  
 Db 292 CCCTTTGCCAGGAGCTGCTGGAGGAGGCTCAGCAAGCCAGCCCTTACCAACCCCGGCAGC 233  
 QY 241 TGTGGCGCAGGA 252  
 Db |||||  
 QY 232 TGTGGCGCAGGA 221

## RESULT 3

US-10-025-380-944/c  
 ; Sequence 944, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedvick, Thomas S.  
 ; APPLICANT: Carter, Darrick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19  
 ; NUMBER OF SEQ ID NOS: 1129  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 944  
 ; LENGTH: 563  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-025-380-944

Query Match 100.0%; Score 252; DB 14; Length 563;  
 Best Local Similarity 100.0%; Pred. No. 2.1e-64;  
 Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 AATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 60  
 Db 472 AATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCTCTGGGGACCAACTCCATGCC 413  
 QY 61 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG 120  
 Db 412 CAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATTGAGCTGCTG 353  
 QY 121 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTAGACCCAGGGCCCTTTGACCAAGGCGCAGC 180  
 Db 352 GAGAAGGATGGCATGGCTTCCAGGAGGCGCTAGACCCAGGGCCCTTTGACCAAGGCGCAGC 293  
 QY 181 CCCTTTGCCAGGAGCTGCTGGAGGAGGCTCAGCAAGCCAGCCCTTACCAACCCCGGCAGC 240  
 Db 292 CCCTTTGCCAGGAGCTGCTGGAGGAGGCTCAGCAAGCCAGCCCTTACCAACCCCGGCAGC 233  
 QY 241 TGTGGCGCAGGA 252  
 Db |||||  
 QY 232 TGTGGCGCAGGA 221

## RESULT 4

US-09-922-217-853/c  
 ; Sequence 853, Application US/09922217  
 ; Patent No. US20020076414A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922,217  
 ; CURRENT FILING DATE: 2001-08-03  
 ; NUMBER OF SEQ ID NOS: 1124







Db 429 AATTGTGCCCTTGAGAGCTGGTCTGTCTTTGGGCTCTTTGGGCGGACCAACTCCATGCC 488  
QY 61 CAGCTGCGAGACCTCAGTTCCAGCTCTTCTCATGAGCTCAGTTGGATCATTGAGCTGCTG 120  
Db 489 CAGTCCGAGACCTCAGTTCCAGCTCTTCTCATGAGCTCAGTTGGATCATTGAGCTGCTG 548  
QY 121 GAGAGGATGGATGGCTCTTCCAGAGGCCCTAGACCCAGGCCCTTTGACCGGGCAGC 180  
Db 549 GAGAGGATGGATGGCTCTTCCAGAGGCCCTAGACCCAGGCCCTTTGACCGGGCAGC 608  
QY 181 CCCTTTGCCAGGAGCTCTGAGAGCGGTGAGCAAGCCAGCCCTTACCCCGGGCAGC 240  
Db 609 CCCTTTGCCAGGAGCTCTGAGAGCGGTGAGCAAGCCAGCCCTTACCCCGGGCAGC 668  
QY 241 TGTGGCGCAGGA 252  
Db 669 TGTGGCGCAGGA 680

## RESULT 10

US-09-880-107-3420  
; Sequence 3420, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; PRIOR FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3420  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843  
US-09-880-107-3420

Query Match 100.0%; Score 252; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 2.4e-64;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AATTGTGCCCTTGAGAGCTGGTCTGTCTTTGGGCTCTTTGGGCGGACCAACTCCATGCC 60  
Db 429 AATTGTGCCCTTGAGAGCTGGTCTGTCTTTGGGCTCTTTGGGCGGACCAACTCCATGCC 488  
QY 61 CAGCTGCGAGACCTCAGTTCCAGCTCTTCTCATGAGCTCAGTTGGATCATTGAGCTGCTG 120  
Db 489 CAGTCCGAGACCTCAGTTCCAGCTCTTCTCATGAGCTCAGTTGGATCATTGAGCTGCTG 548  
QY 121 GAGAGGATGGATGGCTCTTCCAGAGGCCCTAGACCCAGGCCCTTTGACCGGGCAGC 180  
Db 549 GAGAGGATGGATGGCTCTTCCAGAGGCCCTAGACCCAGGCCCTTTGACCGGGCAGC 608  
QY 181 CCCTTTGCCAGGAGCTCTGAGAGCGGTGAGCAAGCCAGCCCTTACCCCGGGCAGC 240  
Db 609 CCCTTTGCCAGGAGCTCTGAGAGCGGTGAGCAAGCCAGCCCTTACCCCGGGCAGC 668  
QY 241 TGTGGCGCAGGA 252  
Db 669 TGTGGCGCAGGA 680

## RESULT 11

US-09-967-768A-192

; Sequence 192, Application US/09967768A  
; Patent No. US20020150877A1  
; GENERAL INFORMATION:  
; APPLICANT: Augustus, Meena  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-72  
; CURRENT APPLICATION NUMBER: US/09/967,768A  
; CURRENT FILING DATE: 2001-09-28  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,109  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,034  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,111  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 325  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 192  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-967-768A-192

Query Match 100.0%; Score 252; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. No. 2.4e-64;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AATTGTGCCCTTGAGAGCTGGTCTGTCTTTGGGCTCTTTGGGCGGACCAACTCCATGCC 60  
Db 429 AATTGTGCCCTTGAGAGCTGGTCTGTCTTTGGGCTCTTTGGGCGGACCAACTCCATGCC 488  
QY 61 CAGCTGCGAGACCTCAGTTCCAGCTCTTCTCATGAGCTCAGTTGGATCATTGAGCTGCTG 120  
Db 489 CAGTCCGAGACCTCAGTTCCAGCTCTTCTCATGAGCTCAGTTGGATCATTGAGCTGCTG 548  
QY 121 GAGAGGATGGATGGCTCTTCCAGAGGCCCTTAGACCCAGGCCCTTTGACCGGGCAGC 180  
Db 549 GAGAGGATGGATGGCTCTTCCAGAGGCCCTTAGACCCAGGCCCTTTGACCGGGCAGC 608  
QY 181 CCCTTTGCCAGGAGCTCTGAGAGCGGTGAGCAAGCCAGCCCTTACCCCGGGCAGC 240  
Db 609 CCCTTTGCCAGGAGCTCTGAGAGCGGTGAGCAAGCCAGCCCTTACCCCGGGCAGC 668  
QY 241 TGTGGCGCAGGA 252  
Db 669 TGTGGCGCAGGA 680

## RESULT 12

US-09-922-217-1105  
; Sequence 1105, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Fuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSTICS  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1105

LENGTH: 1917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-922-217-1105

Query Match 100.0%; Score 252; DB 9; Length 1917;  
Best Local Similarity 100.0%; Pred. No. 2.4e-64;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCCCCTGAGGAGCTCGTCTGGTCTTTGGGCTCTGGGGGACCACTCCATGCC 60  
DB 431 AATTGTGCCCCTGAGGAGCTCGTCTGGTCTTTGGGCTCTGGGGGACCACTCCATGCC 490  
QY 61 CAGCTGCGAGACCTCAGTTCAGCTCTTCGATGAGCTCAGTTGGATCATTTAGCTGCTG 120  
DB 491 CAGCTGCGAGACCTCAGTTCAGCTCTTCGATGAGCTCAGTTGGATCATTTAGCTGCTG 550  
QY 121 GAGAAGGATGGCATGGCCCTCCAGGAGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 180  
DB 551 GAGAAGGATGGCATGGCCCTCCAGGAGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 610  
QY 181 CCCTTTGCCAGGAGCTCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCAGC 240  
DB 611 CCCTTTGCCAGGAGCTCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCAGC 670  
QY 241 TGTGGCGCAGGA 252  
DB 671 TGTGGCGCAGGA 682

## RESULT 13

US-10-025-380-1105  
Sequence 1105, Application US/10025380  
Publication No. US20020182191A1

## GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secretist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeleine Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yudi  
APPLICANT: Smith, Carole L.  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
APPLICANT: Skeiky, Yasir A. W.  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedvick Thomas S.  
APPLICANT: Carter, Darrick  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
FILE REFERENCE: 210121.471C14  
CURRENT APPLICATION NUMBER: US/10/025,380  
CURRENT FILING DATE: 2001-12-19  
NUMBER OF SEQ ID NOS: 1129  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1105  
LENGTH: 1917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-025-380-1105

Query Match 100.0%; Score 252; DB 14; Length 1917;  
Best Local Similarity 100.0%; Pred. No. 2.4e-64;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCCCCTGAGGAGCTCGTCTGGTCTTTGGGCTCTGGGGGACCACTCCATGCC 60  
DB 431 AATTGTGCCCCTGAGGAGCTCGTCTGGTCTTTGGGCTCTGGGGGACCACTCCATGCC 490  
QY 61 CAGCTGCGAGACCTCAGTTCAGCTCTTCGATGAGCTCAGTTGGATCATTTAGCTGCTG 120

DB 491 CAGCTGCGAGACCTCAGTTCAGCTCTTCGATGAGCTCAGTTGGATCATTTAGCTGCTG 550  
QY 121 GAGAAGGATGGCATGGCCCTCCAGGAGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 180  
DB 551 GAGAAGGATGGCATGGCCCTCCAGGAGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 610  
QY 181 CCCTTTGCCAGGAGCTCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCAGC 240  
DB 611 CCCTTTGCCAGGAGCTCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCAGC 670  
QY 241 TGTGGCGCAGGA 252  
DB 671 TGTGGCGCAGGA 682

## RESULT 14

US-10-264-049-756  
Sequence 756, Application US/10264049  
Publication No. US2004000579A1

## GENERAL INFORMATION:

APPLICANT: Birse et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PA133P1  
CURRENT APPLICATION NUMBER: US/10/264,049  
CURRENT FILING DATE: 2002-10-04  
PRIOR APPLICATION NUMBER: PCT/US01/18569  
PRIOR FILING DATE: 2001-06-07  
PRIOR APPLICATION NUMBER: US 60/209,467  
PRIOR FILING DATE: 2000-06-07  
NUMBER OF SEQ ID NOS: 4360  
SOFTWARE: PatentIn Ver. 3.1  
SEQ ID NO 756  
LENGTH: 1956  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-264-049-756

Query Match 100.0%; Score 252; DB 12; Length 1956;  
Best Local Similarity 100.0%; Pred. No. 2.4e-64;  
Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTGTGCCCCTGAGGAGCTCGTCTGGTCTTTGGGCTCTGGGGGACCACTCCATGCC 60  
DB 470 AATTGTGCCCCTGAGGAGCTCGTCTGGTCTTTGGGCTCTGGGGGACCACTCCATGCC 529  
QY 61 CAGCTGCGAGACCTCAGTTCAGCTCTTCGATGAGCTCAGTTGGATCATTTAGCTGCTG 120  
DB 530 CAGCTGCGAGACCTCAGTTCAGCTCTTCGATGAGCTCAGTTGGATCATTTAGCTGCTG 589  
QY 121 GAGAAGGATGGCATGGCCCTCCAGGAGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 180  
DB 590 GAGAAGGATGGCATGGCCCTCCAGGAGCCCTAGACCCAGGGCCCTTTGACCAAGGGCAGC 649  
QY 181 CCCTTTGCCAGGAGCTCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCAGC 240  
DB 650 CCCTTTGCCAGGAGCTCTGAGCAGCGTCAAGCAAGCCAGCCCTTACCAACCCCGGCAGC 709  
QY 241 TGTGGCGCAGGA 252  
DB 710 TGTGGCGCAGGA 721

## RESULT 15

US-09-925-301-207  
Sequence 207, Application US/09925301  
Patent No. US20020052308A1

## GENERAL INFORMATION:

APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: PCT/US00/05882  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1694  
 ; SOFTWARE: PatentIn ver. 2.0  
 ; SEQ ID NO 207  
 ; LENGTH: 1996  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-925-301-207

Query Match 100.0%; Score 252; DB 9; Length 1996;  
 Best Local Similarity 100.0%; Pred. No. 2.4e-64;  
 Matches 252; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	450	AATTGTGCCCTTGAGGAGCTGCTGCTGCTTTGGGCTCTGGGGGACCAACTCCATGCC	509
Qy	61	CAGCTGGAGACCTCACTTCCAGCTCTCTGATGAGCTCAGTTGGATCATTTGAGTGTCTG	120
Db	510	CAGCTGGAGACCTCACTTCCAGCTCTCTGATGAGCTCAGTTGGATCATTTGAGTGTCTG	569
Qy	121	GAGAAGGATGCGATGGCTTCCAGGAGGCTTACAGCCAGGCGCTTTGACCGGGCAGC	180
Db	570	GAGAAGGATGCGATGGCTTCCAGGAGGCTTACAGCCAGGCGCTTTGACCGGGCAGC	629
Qy	181	CCCTTTGCCAGGAGCTGTGGAGCGAGCGGTTCAGCAAGCCAGCCCTTACCCCGGCGAGC	240
Db	630	CCCTTTGCCAGGAGCTGTGGAGCGAGCGGTTCAGCAAGCCAGCCCTTACCCCGGCGAGC	689
Qy	241	TGTGGCGCAGGA	252
Db	690	TGTGGCGCAGGA	701

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 Job time : 89.8409 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 12, 2004, 21:34:51 ; Search time 585.395 Seconds  
(without alignments)  
2334.540 Million cell updates/sec

Title: US-08-978-217-2

Perfect score: 1980

Sequence: 1 MAATCEISNIFSNYSFAMYS.....YKFGKSSGKWEVLOSRN 371

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Fgapop 6.0	Fgapext 7.0	
Delop 6.0	Delext 7.0	

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-Q=/cgn2\_1/USPTO.spool/US08978217/runat\_10022004\_133827\_20514/app\_query.fasta\_1.1500  
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Database : Published Applications NA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match Length	ID	Description
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1	1980	100.0	1907	15	US-10-097-340-74	Sequence 74, Appl
2	1980	100.0	1915	10	US-09-964-824A-101	Sequence 101, App
3	1980	100.0	1915	10	US-09-964-824A-563	Sequence 563, App
4	1980	100.0	1915	10	US-09-880-107-3420	Sequence 3420, Ap
5	1980	100.0	1915	10	US-09-967-768A-192	Sequence 192, App
6	1980	100.0	1917	9	US-09-922-217-1105	Sequence 1105, Ap
7	1980	100.0	1917	14	US-10-025-380-1105	Sequence 1105, Ap
8	1980	100.0	1956	12	US-10-264-049-756	Sequence 756, App
9	1980	100.0	1996	9	US-09-925-301-207	Sequence 207, App
10	1654	83.5	2269	12	US-10-131-410-64	Sequence 64, Appl
c 11	1127	56.9	626	9	US-09-922-217-853	Sequence 853, App
c 12	1127	56.9	626	10	US-09-833-263-853	Sequence 853, App
c 13	1127	56.9	626	14	US-10-025-380-853	Sequence 853, App
c 14	1011	51.1	563	9	US-09-922-217-944	Sequence 944, App
c 15	1011	51.1	563	10	US-09-833-263-944	Sequence 944, App
c 16	1011	51.1	563	14	US-10-025-380-944	Sequence 944, App
c 17	903	45.6	502	9	US-09-604-287A-282	Sequence 282, App
c 18	903	45.6	502	10	US-09-339-338-282	Sequence 282, App
c 19	903	45.6	502	11	US-09-551-621-282	Sequence 282, App
c 20	903	45.6	502	13	US-10-124-805-282	Sequence 282, App
c 21	903	45.6	502	14	US-10-007-805-282	Sequence 282, App
c 22	903	45.6	502	15	US-10-076-622-282	Sequence 282, App
c 23	822	41.5	499	10	US-09-998-598-2290	Sequence 2290, Ap
c 24	652	32.9	437	10	US-09-998-598-2216	Sequence 2216, Ap
c 25	618	31.2	355	10	US-09-867-701-4818	Sequence 4818, Ap
c 26	558	28.2	1429	10	US-09-764-864-320	Sequence 320, App
c 27	556.5	28.1	1426	9	US-09-925-297-309	Sequence 309, App
c 28	556.5	28.1	1426	15	US-10-106-698-935	Sequence 935, App
c 29	554.5	28.0	1435	12	US-10-292-798-1601	Sequence 1601, Ap
c 30	554.5	28.0	1435	13	US-10-017-161-1953	Sequence 1953, Ap
c 31	519.5	26.2	852	9	US-09-759-143-44	Sequence 44, Appl
c 32	519.5	26.2	852	9	US-09-780-669-44	Sequence 44, Appl
c 33	519.5	26.2	852	9	US-09-030-606-44	Sequence 44, Appl
c 34	519.5	26.2	852	9	US-09-822-827-44	Sequence 44, Appl
c 35	519.5	26.2	852	10	US-09-115-453-44	Sequence 44, Appl
c 36	519.5	26.2	852	10	US-09-232-880-44	Sequence 44, Appl
c 37	519.5	26.2	852	10	US-09-895-793-44	Sequence 44, Appl
c 38	519.5	26.2	852	10	US-09-895-814-44	Sequence 44, Appl
c 39	519.5	26.2	852	13	US-10-144-678A-44	Sequence 44, Appl
c 40	519.5	26.2	852	13	US-10-294-023-44	Sequence 44, Appl
c 41	519.5	26.2	852	14	US-10-012-896-44	Sequence 44, Appl
c 42	519.5	26.2	852	15	US-10-010-940-44	Sequence 44, Appl
c 43	442	22.3	5045	10	US-09-974-298-12	Sequence 12, Appl
c 44	435.5	22.0	275	15	US-10-060-036-3261	Sequence 3261, Ap
c 45	435	22.0	440	10	US-09-960-352-11873	Sequence 11873, A

#### ALIGNMENTS

RESULT 1  
US-10-097-340-74  
; Sequence 74, Application US/10097340  
; Publication No. US20030087250A1  
; GENERAL INFORMATION:  
; APPLICANT: John MONAHAN  
; APPLICANT: Manjula GANNAVAPURU  
; APPLICANT: Sebastian HOERSCH  
; APPLICANT: Shubhangi KAWATKAR  
; APPLICANT: Steve G KOVATS  
; APPLICANT: Rachel E. MEYERS  
; APPLICANT: Michael MORRISSEY  
; APPLICANT: Peter OLANDT  
; APPLICANT: Ami SEN  
; APPLICANT: Peter VEIBY  
; APPLICANT: Gordon B. MILLS  
; APPLICANT: Robert C. BAST, Jr.  
; APPLICANT: Karen LU  
; APPLICANT: Rosemarie SCHMANDT  
; APPLICANT: Xumei ZHAO  
; APPLICANT: Karen GLATT  
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
; FILE REFERENCE: MEI-030



Db 120 ATGGCTCAACCTGTGAGATTAGCAACATTTTACCACTACTTCAGTGGGATGACAGC 179  
Qy 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspAspLeu 40  
Db 180 TCGAGGAGTCCACCTGGCTCTGTTCCTCCCTCTGTCACCTTTGGGGCCGATGACTTG 239  
Qy 41 ValLeuThrLeuSerAspProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60  
Db 240 GTACTGACCTTGACCAACCCCAAGTGTATGTGGGGTACAGAGAGCCAGCTGGTTG 299  
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Db 300 GGGGAACAGCCCAAGTCTGTGTCGAAGACGAGCTTCTGGACTGGATCAGTACCAAGTG 359  
Qy 81 GluLysAsnLysTrpAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
Db 360 GAGAGAACAAGTACGACGACGAGCCCAATGACTTCTCACGATGTGATGGATGGCGCC 419  
Qy 101 ThrLeuCysAsnCysAlaLeuGluGluLeuValPheGlyProLeuGlyAspGln 120  
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Qy 121 LeuHisAlaGlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIle 140  
Db 480 CTCCATGCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGTATGAGCTCAGTTGGATCATT 539  
Qy 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnAlaLeuAspProGlyProPheAsp 160  
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Qy 201 ThrGlyAlaSerArgSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220  
Db 720 ACTGGTCTTCTCGAGCTCCCACTCTCAGACTCCGGTGGAAAGTGCAGCTGGACCTGGAT 779  
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Db 840 AAGCAGGGAGCGGAACGAGCGCGCCCGAAGCTGACCAAGAGTACTGGGACTGT 899  
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Db 900 CTCGAGGGCAAGAGAGCAGCAGCCCGCAGGACCCCACTGTGGGATTCATCCGG 959  
Qy 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300  
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Qy 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlnLysLysLys 320  
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Qy 321 AsnSerAsnMetThrTyrgluLysLeuSerArgAlaMetArgTrpTrpLysArgGlu 340  
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Qy 341 IleLeuGluArgValAspGlyArgArgLeuValTrpLysPheGlyLysAsnSerSerGly 360  
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Qy 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371

Db 1200 TGGAGAGGAGGAAGAGGTCTTCCAGAGTCGGAAC 1232  
RESULT 3  
US-09-964-824A-563  
; Sequence 563, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 583  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 563  
; LENGTH: 1915  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-563

Alignment Scores:  
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Score: 1980.00 Matches: 371  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-08-978-217-2 (1-371) x US-09-964-824A-563 (1-1915)

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Qy 141 GluLeuLeuGluLysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAsp 160  
Db 540 GAGCTGCTGGAGAGATGGATGGCTTCCAGAGGCCCTAGACCCAGGCCCCCTTTGAC 599  
Qy 161 GlnGlySerProPheAlaGlnGluLeuLeuAspGlyGlnGlnAlaSerProTrpHis 180  
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US-09-922-217-1105

Alignment Scores:

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 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 9 Gaps: 0

US-08-978-217-2 (1-371) x US-09-922-217-1105 (1-1917)

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 Qy 81 GluLysAsnLysTyrAspAlaSerAlaIleAspPheSerArgCysAspMetAspGlyAla 100  
 Db 362 GAGAGAACAGTACGACGCGCAGCCGCTTTCACCTTCTCAGATGTGACATGGATGGGCC 421  
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 Db 542 GAGCTGCTGGAGAGAGTGGATGGCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC 601  
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 Qy 201 ThrGlyAlaSerArgSerSerHisSerSerAspSerGlyGlySerAspValAspLeuAsp 220  
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 Qy 221 ProThrAspGlyLysLeuPheProSerAspGlyPheArgAspCysLysLysGlyAspPro 240  
 Db 782 CCCACTGATGCGAAGCTCTTCCCGAGCGATGGTTTCTGACTGCAAGAGAGGGGGATCCC 841  
 Qy 241 LysHisGlyLysArgLysArgLysArgProArgLysLeuSerLysGluTyrTrpAspCys 260  
 Db 842 AAGCACGGGAACGGAACGAGCGCGCCGCGGAAAGCTGACCAAGAGTACTGGGACTGT 901  
 Qy 261 LeuGluGlyLysLysSerLysHisAlaProArgGlyThrHisLeuTrpGluPheIleArg 280  
 Db 902 CTCGAGGGCAAGAGAGCAGACGCGCCGAGAGCCACCCACTGTGGGAGTTTCAATCCGG 961  
 Qy 281 AspIleLeuIleHisProGluLeuAsnGluGlyLeuMetLysTrpGluAsnArgHisGlu 300  
 Db 962 GACATCCCTCATCCACCCGAGCTCAACGAGGGCTCTCATGAAGTGGGAGATCGGCATGAA 1021  
 Qy 301 GlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeuTrpGlyGlnLysLysLys 320

Db 1022 GCGGTCTTCAAGTTCCTGGCGCTCCGAGGCTGTGGCCCACTATATGGGCGCAAGAAAAG 1081  
 Qy 321 AsnSerAsnMetThrTyrGluLysLeuSerArgAlaMetArgTyrTyrTyrLysArgGlu 340  
 Db 1082 AACAGCAACATGACTACGAGAGCTGAGCGGCGCATGAGGTACTACTACAAACGGGAG 1141  
 Qy 341 IleLeuGluArgValAspGlyValArgLeuValTyrLysPheGlyLysAsnSerSerGly 360  
 Db 1142 ATCTGTGAACGGTGGATGGCGCGCACTGCTCTACAAGTTTGGCAAAACTCAAGCGGC 1201  
 Qy 361 TrpLysGluGluGluValLeuGlnSerArgAsn 371  
 Db 1202 TCGAGGAGGAGAGGTTCTCCAGAGTCGGAAC 1234

RESULT 7

US-10-025-380-1105  
 ; Sequence 1105, Application US/10025380  
 ; Publication No. US20020182191A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedwick Thomas S.  
 ; APPLICANT: Carter, Darrick

TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USEFILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380

CURRENT FILING DATE: 2001-12-19

NUMBER OF SEQ ID NOS: 1129

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1105

LENGTH: 1917

TYPE: DNA

ORGANISM: Homo sapiens

US-10-025-380-1105

Alignment Scores:

Pred. No.: 8,71e-212 Length: 1917  
 Score: 1980.00 Matches: 371  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 14 Gaps: 0

US-08-978-217-2 (1-371) x US-10-025-380-1105 (1-1917)

Qy 1 MetAlaAlaThrCysGluLeuSerAsnIlePheSerAsnTyrPheSerAlaMetTyrSer 20  
 Db 122 ATGGCTGCACCTGAGATTTAGCAACATTTTACCACTACTTTCAGTGGGATGATCAGC 181  
 Qy 21 SerGluAspSerThrLeuAlaSerValProAlaAlaThrPheGlyAlaAspLeu 40  
 Db 182 TCGAGGAGCTACCCCTGGCTCTGTTCCCTCTGCTCCACCTTTGGGGCCGAGACTTG 241  
 Qy 41 ValLeuThrLeuSerAsnProGlnMetSerLeuGluGlyThrGluLysAlaSerTrpLeu 60  
 Db 242 GTACTGACCTTGCAGCAACCCACAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGT 301  
 Qy 61 GlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAspTrpIleSerTyrGlnVal 80





; CURRENT APPLICATION NUMBER: US/10/131,410  
 ; CURRENT FILING DATE: 2002-04-25  
 ; PRIOR APPLICATION NUMBER: 09/646,673  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908  
 ; PRIOR FILING DATE: 1999-03-19  
 ; NUMBER OF SEQ ID NOS: 202  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 64  
 ; LENGTH: 2269  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-131-410-64

Alignment Scores:  
 Pred. No.: 3,98e-175 Length: 2269  
 Score: 1654.00 Matches: 315  
 Percent Similarity: 99.37% Conservative: 0  
 Best Local Similarity: 99.37% Mismatches: 2  
 Query Match: 83.54% Indels: 2  
 DB: 12 Gaps: 0

US-08-978-217-2 (1-371) x US-10-131-410-64 (1-2269)

QY 55 GluLysAlaSerTrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnValLeuAsp 74  
 DB 15 GAGAAGGCCAGCTGGTTGGGGAAACAGCCCAAGTTCTGGTCGAAGAG-CAGGTTCTGGAC 73  
 QY 75 TrpLeuSerTrpGlnValGluLysAsnLysTrpAspAlaSerAlaLeuAspPheSerArg 94  
 DB 74 TGCATCAGCTACCAAGTCGAGAGAACAGTACGACGCGAAGGCCATTGACTTCTCAGA 133  
 QY 95 CysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuValPhe 114  
 DB 134 TGTGACATGATGGCCCACTTCTCAATTGTCCTTGGAGAGTGGCTTCTGCTCTTT 193  
 QY 115 GlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSerAsp 134  
 DB 194 GGGCCCTCTGGGAGCCCACTTCCATGCCAGCTGCGAGACCTCCTCCAGCTTCTGAT 253  
 QY 135 GluLeuSerTrpLeuLeuGluLeuGluLysAspGlyMetAlaPheGlnGluAlaLeu 154  
 DB 254 GAGCTCAGTTGGATCATTAGCTGTCTGGAGAGAGTGGATGGCTTCCAGGAGCCCTA 313  
 QY 155 AspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAspGlyGln 174  
 DB 314 GACCCAGGGCCCTTTGACAGGGCAGCCCTTTGCCCAGGAGCTGCTGGACACGGTCAG 373  
 QY 175 GlnAlaSerProTrpHisProGlySerCysGlyAlaGlyValaProSerProGlySerSer 194  
 DB 374 CAAGCCAGCCCTTACCACCCCGGACAGCTGTGGCGCAGAGAGCCCTCCCTGGCAGCTCT 433  
 QY 195 AspValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSerGlyGly 214  
 DB 434 GAGCTCTCCACCGCAGACT-GGTGCTTCTCGAGAGCTCCACTCTCAGACTCCCGTGA 492  
 QY 215 SerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArgAsp 234  
 DB 493 AGTGACGTGACCTGGATCCACTGATGGCAAGCTCTTCCCGAGGATGGTTTCTGAC 552  
 QY 235 CysLeuLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeuSer 254  
 DB 553 TGCAAGAAGGGGGATCCCAAGCAGCGGAAACGAGGCGCCGCCCGCCGAAAGCTGAGC 612  
 QY 255 LysGluTrpTrpAspCysLeuGluGlyLysSerLysHisAlaProArgGlyThrHis 274  
 DB 613 AAGAGTACTGGGACTGTCTCGAGGCAAGAGAGCAGCAGCGCCCGCAGAGCCAC 672  
 QY 275 LeuTrpGluPheLeuArgAspLeuLeuHisProGluLeuAsnGluGlyLeuMetLys 294  
 DB 673 CTGTGGGAGTTATCCGGGACATCTCTCATCCCGGAGCTCAACGAGGGCTCTATGAG 732  
 QY 295 TrpGluAsnArgHisGluGlyValPheLysPheLeuArgSerGluAlaValAlaGlnLeu 314

DB 733 TGGGAGAATCGCATGAAGCGCTTCAAGTCTCGCTCCGAGGCTGTGGCCCACTA 792  
 QY 315 TrpGlyGlnLysLysLysAsnSerAsnMetThrTrpGluLysLeuSerArgAlaMetArg 334  
 DB 793 TGGGGCCAAAAGAAAAGAACAGCAACATCACTACGAGAAGCTGAGCGCGGCATGAG 852  
 QY 335 TyrTrpTrpLysArgGluLeuLeuGluArgValaAspGlyArgGluValTrpLysPhe 354  
 DB 853 TACTACTACAAACGGGAGATCCTGGAACGGGTGGATGGCCGGGACTCGTCTACAGTTT 912  
 QY 355 GlyLysAsnSerSerGlyTrpLysGluGluGluValLeuGlnSerArgAsn 371  
 DB 913 GGCAAAAACCTCAAGCGCTGGAAGGAGAGGTTCTCCAGAGTCGGAAC 963

# RESULT 11

; Sequence 853, Application US/09922217  
 ; Patent No. US20020076414A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yugu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922,217  
 ; CURRENT FILING DATE: 2001-08-03  
 ; NUMBER OF SEQ ID NOS: 1124  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 853  
 ; LENGTH: 626  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-922-217-853

Alignment Scores:  
 Pred. No.: 8.4e-117 Length: 626  
 Score: 1127.00 Matches: 208  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 56.92% Indels: 0  
 DB: 9 Gaps: 0

US-08-978-217-2 (1-371) x US-09-922-217-853 (1-626)

QY 53 GlyThrGluLysAlaSerTrpLeuGlyGluGlnProGlnPheTrpSerLysThrGlnVal 72  
 DB 624 GGTACAGAGAGGCCAGCTGGTTGGGGAAACAGCCCAAGTTCTGGTCGAAGAGCGAGTT 565  
 QY 73 LeuAspTrpLeuSerTrpGlnValGluLysAsnLysTrpAspAlaSerAlaLeuAspPhe 92  
 DB 564 CTGACTGGATCAGTACCAAGTGGAGAGAACAGTACGACGAGCCGCTTGAATTC 505  
 QY 93 SerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeu 112  
 DB 504 TCAGATGTACATGATGATGGCCCACTCTGCAATTGTGCCCTTGAGGAGTGGCTG 445  
 QY 113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSer 132  
 DB 444 GTCTTTGGGCTCTGGGGAGCCCAACTCCATGCCAGCTCGAGACCTCACTCCAGCTCT 385  
 QY 133 SerAspGluLeuSerTrpLeuLeuGluLeuGluLysAspGlyMetAlaPheGlnGlu 152

Db 384 TCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAGGATGCGATGCGCTTCCAGGAG 325  
 Qy 153 AlaleuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAsp 172  
 Db 324 GCCTTAGACCCAGGGCCCTTTGACAGGGGAGGCCCTTTTCCAGAGAGCTGCTGGACGAC 265  
 Qy 173 GlyGlnGlnAlaSerProTyHisProGlySerCysGlyAlaGlyAlaProSerProGly 192  
 Db 264 GGTGAGCAAGCCAGCCCTTACCAACCCCGGCGAGCTGTGGCGAGGAGCCCTTCCCGCGC 205  
 Qy 193 SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer 212  
 Db 204 AGCTCTGAGCTCTCCACCGCAGGAGCTGTGCTTCCGAGCTCTCCACCTCCCTCAGACTCC 145  
 Qy 213 GlyGlySerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer 232  
 Db 144 GGTGGAAGTCACTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCGCAGGATGGTTTT 85  
 Qy 233 ArgAspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLys 252  
 Db 84 CGTGACTGCAAGAGGGGGATCCCAAGCACGGGAGCGGAACGAGCGCGCGCGCGGAAAG 25  
 Qy 253 LeuSerLysGluTyrTrpAspCys 260  
 Db 24 CTGAGCAAGAGTACTGGGACTGT 1

RESULT 12

US-09-833-263-853/c  
 ; Sequence 853, Application US/09833263  
 ; Patent No. US20020110547A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Meagher, Madeleine J.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
 ; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C12  
 ; CURRENT APPLICATION NUMBER: US/09/833,263  
 ; CURRENT FILING DATE: 2001-04-10  
 ; NUMBER OF SEQ ID NOS: 1093  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 853  
 ; LENGTH: 626  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 US-09-833-263-853

Alignment Scores:  
 Pred. No.: 8.4e-117 Length: 626  
 Score: 1127.00 Matches: 208  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 56.92% Indels: 0  
 DB: 1.0 Gaps: 0

US-08-978-217-2 (1-371) x US-09-833-263-853 (1-626)

Qy 53 GlyThrGluLysAlaSerTrpLeuGlyGlnProGlnPheTrpSerLysThrGlnVal 72  
 Db 624 GGTACAGAGAGGGCCAGCTGTGTGGGGAAACAGCCCGAGTCTGTGTCGAGAGCGAGTT 565  
 Qy 73 LeuAspTrpIleSerTrpGlnValGluLysAsnLysTyAspAlaSerAlaIleAspPhe 92  
 Db 564 CTGGACTGATCAGCTACCAAGTGGAGAGAACAGTACGACGAGCGCATGACTTC 505  
 Qy 93 SerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluLeuArgLys 112  
 Db 504 TCACGATGTCATGATGGGCGCCACCTCTGCAATTGTGCTTGGAGAGTCCGCTG 445  
 Qy 113 ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSer 132  
 Db 444 GTCTTTGGGCTCTGTGGGGAGCCACTTCCATGCCAGCTGGAGACCTCACTTCCAGCTCT 385

Qy 133 SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGlu 152  
 Db 384 TCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGAGGATGCGATGCGCTTCCAGGAG 325  
 Qy 153 AlaleuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAsp 172  
 Db 324 GCCTTAGACCCAGGGCCCTTTGACAGGGGAGGCCCTTTTCCAGAGAGCTGCTGGACGAC 265  
 Qy 173 GlyGlnGlnAlaSerProTyHisProGlySerCysGlyAlaGlyAlaProSerProGly 192  
 Db 264 GGTGAGCAAGCCAGCCCTTACCAACCCCGGCGAGCTGTGGCGAGGAGCCCTTCCCGCGC 205  
 Qy 193 SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer 212  
 Db 204 AGCTCTGAGCTCTCCACCGCAGGAGCTGTGCTTCCGAGCTCTCCACCTCCCTCAGACTCC 145  
 Qy 213 GlyGlySerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer 232  
 Db 144 GGTGGAAGTCACTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCGCAGGATGGTTTT 85  
 Qy 233 ArgAspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLys 252  
 Db 84 CGTGACTGCAAGAGGGGGATCCCAAGCACGGGAGCGGAACGAGCGCGCGCGGAAAG 25  
 Qy 253 LeuSerLysGluTyrTrpAspCys 260  
 Db 24 CTGAGCAAGAGTACTGGGACTGT 1

RESULT 13

US-10-025-380-853/c  
 ; Sequence 853, Application US/10025380  
 ; Publication No. US20020182191A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yudi  
 ; APPLICANT: Smith, Carole L.  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Vedwick Thomas S.  
 ; APPLICANT: Carter, Darick  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C14  
 ; CURRENT APPLICATION NUMBER: US/10/025,380  
 ; CURRENT FILING DATE: 2001-12-19  
 ; NUMBER OF SEQ ID NOS: 1129  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 853  
 ; LENGTH: 626  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-025-380-853

Alignment Scores:  
 Pred. No.: 8.4e-117 Length: 626  
 Score: 1127.00 Matches: 208  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 56.92% Indels: 0  
 DB: 1.0 Gaps: 0

US-08-978-217-2 (1-371) x US-10-025-380-853 (1-626)

QY	53	GIYThrGluLysAlaSerTrpLeuGlyClnuGlnProGlnPheTrpSerLysThrGlnVal	72
Db	624	GGTACAGAAAGCCAGCTGGTGTGGGGAAACAGCCCCAGTCTGGTTCGAAGACGCAGGTT	565
QY	73	LeuAspTrpIleSerTyrglnValGluLysAsnLysTyrsAspAlaSerAlaIleAspPhe	92
Db	564	CTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAAGTACGACGCAAGCGCCATTGACTTC	505
QY	93	SerArgCysAspMetAspGlyAlaThrLeuCysAsnCysAlaLeuGluGluLeuArgLeu	112
Db	504	TCACGATGTCAGATGAGCGCCACCCTCTGCATTTGTGCCCTTGAGGAGCTCGGCTCG	445
QY	113	ValPheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSer	132
Db	444	GTCTTTGGGCCCTCTGGGGACCAACTCCATGCCAGCTGGCAGACCTCACTTCAGCTCT	385
QY	133	SerAspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGlu	152
Db	384	TCCTGATGAGCTCAGTTGGTGCATTGAGCTGTCTGGAGAAGNTGGCATGGCTTCCAGGAG	325
QY	153	AlaLeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspAsp	172
Db	324	GGCCTAGACCCAGGCGCCTTTGACAGGGCAGCCCTTTGCCACGAGAGCTGCTGGACGAC	265
QY	173	GlyGlnGlnAlaSerProTyHisProGlySerCysGlyAlaGlyAlaProSerProGly	192
Db	264	GGTACGACAGCCAGCCCTTACACCCCGCAGCTCTGGCGCAGGAGCCCCCTCCCCCGGC	205
QY	193	SerSerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSer	212
Db	204	AGCTCTGAGCTCTCACCGCGAGGAGCTGGTGCTTCTCGAGCTCCCACTCCTCAGACTCC	145
QY	213	GlyGlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPhe	232
Db	144	GGTGGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCCAGCGATGGTTTT	85
QY	233	ArgAspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLys	252
Db	84	CGTGACTCGAAGAAGGGGATCCCCAAGCACGGGAACGGAGCCCGCCCCCAAG	25
QY	253	LeuSerLysGluTyrrTrpAspCys	260
Db	24	CTGAGCAAAAGATCTATGGGACTGT	1

## RESIST 14

RESULT 14  
US-09-922-217-944/c  
; Sequence 944, Application US/09922217  
; Patent No. US20020076414A1  
; GENERAL INFORMATION:

/ GENERATED INFORMATION /  
 / APPLICANT: XU, Jiangchun /  
 / APPLICANT: Lodes, Michael J. /  
 / APPLICANT: Secretist, Heather /  
 / APPLICANT: Benson, Darin R. /  
 / APPLICANT: Meagher, Madeleine Joy /  
 / APPLICANT: Stolk, John A. /  
 / APPLICANT: Wang, Jingtong /  
 / APPLICANT: Jiang, Fugtu /  
 / APPLICANT: Smith, Carole Lynn /  
 / APPLICANT: King, Gordon E. /  
 / APPLICANT: Wang, Aijun /  
 / APPLICANT: Clapper, Jonathan D. /

APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSTICS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03

```

; NUMBER OF SEQ ID NOS: 1134
; SOFTWARE: fastseq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

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Alignment Scores:

Pred. No.:	7.4e-104	Length:	563
Score:	101.00%	Matches:	187
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	51.06%	Indels:	0
DB:	9	Gaps:	0

US-08-978-217-2 (1-371) x US-09-922-217-944 (1-563)

Qy	74	AspTrpIleSerTyrGlnValGluLysAenLysTyrAspAlaSerAlaIleAspPheSer	93
Db	562	GACTGGATCAGCTACCAAGTCGAGAAGAACAAAGTACGACCAAGCGCATTTGATCTCTCA	503
Qy	94	ArgCysAspMetAspGlyAlaThrLeuCysAsnCySalatLeuGluGluLeuArgLeuVal	113
Db	502	CGATGTGACATGGATGGCGCCACCCTCTGCANATTGTGCCCTTTGAGAGCTGCGCTCTGGTC	443
Qy	114	PheGlyProLeuGlyVaspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSerSer	133
Db	442	TTTGGGCTCTGGGGGACCAACTCCATCCCGACGTGCGAGACCTCACTTCCAGCTCTTCT	383
Qy	134	AspGluLeuSerTrpIleIleGluLeuLeuGluLysAspGlyMetAlaPheGlnGluAla	153
Db	382	GATGAGCTCAGTTGGATCATTTAGCTGCTGCGAAGGATGGCATGGCTTTCCAGGAGGCC	323
Qy	154	LeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuLeuAspAspGly	173
Db	322	CTAGACCCAGGGCCCTTTGACAGGGCAGCCCCCTTTGCCAGGAGCTGCTGGACGACGGT	263
Qy	174	GlnGlnAlaSerProTyrHisProGlySerCysGlyAlaGlyAlaProSerProGlySer	193
Db	262	CAGCAAGCCAGCCCTTACCACCCGGCAGCTGTGGCGCAGGAGCCCTCCCCGGCAGC	203
Qy	194	SerAspValSerThrAlaGlyThrGlyAlaSerArgSerSerHisSerSerAspSerGly	213
Db	202	TCTGACGCTCTCCACGCGAGGACTGGTCTCTTCGGAGCTCCCACTCCTCAGACTCCGGT	143
Qy	214	GlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArg	233
Db	142	GGAGGTGACGTGGACTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCGT	83
Qy	234	AspCysLysLysGlyVaspProLysHisGlyLysArgLysArgGlyArgProArgLysLeu	253
Db	82	GACTGCNAGAGGGGATCCCAAGCACGGGAGCGGAAACGAGGCCGCCGCCAAGCTG	23
Qy	254	SerLysGluTyrTrpAspCys	260
Db	22	AGCAAGAGTACTGGACTGT	2

## RESIT.T 15

US-09-833-263-944/c  
; Sequence 944, Application US/09833263  
; Patent No. US20020110547A1

/ APPLICANT: Wang, Aijun  
 / APPLICANT: Clapper, Jonathan D.  
 / APPLICANT: Stolk, John A.  
 / APPLICANT: Meagher, Madeleine J.  
 / GENERAL INFORMATION:  
 /

```

1 TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
2
3 TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
4
5 FILE REFERENCE: 210121.471C12
6
7 CURRENT APPLICATION NUMBER: US/09/833.263
8
9 CURRENT FILING DATE: 2001-04-10
10
11 NUMBER OF SEQ ID NOS: 1093
12
13 SOFTWARE: FastSeq for Windows Version 3.0

```

```

; SOFTWARE: FALCON94 IOL
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-944

```



Alignment Scores:

Pred. No.: 7.4e-104 Length: 563  
 Score: 1011.00 Matches: 187  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 51.06% Indels: 0  
 DB: 10 Gaps: 0

US-08-978-217-2 (1-371) x US-09-833-263-944 (1-563)

Qy	74	AspTrpIleSerTyGlnValGluLysAsnLysTyAspAlaSerAlaIleAspPheSer	93
Db	562	GACTGGATCAGCTACCAAGTGGAGAGAACAGTACGACCAAGCCCATGCTCTCTCA	503
Qy	94	ArgCysAspMetAspGlyAlaThrLeuLysAsnLysAlaLeuLysGluLysLeuVal	113
Db	502	CGATGTGACATGGATGGCCACCTCTGCAATTGTGCCCTTGAGGAGCTGGCTCTGGTC	443
Qy	114	PheGlyProLeuGlyAspGlnLeuHisAlaGlnLeuArgAspLeuThrSerSerSer	133
Db	442	TTTGGGCTCTGGGGGACCAACTCATGCCAGCTGGAGACCTCACTTCCAGCTCTTCT	383
Qy	134	AspGluLeuSerTrpIleIleGluLeuLysGluLysAspGlyMetAlaPheGlnGluAla	153
Db	382	GATGAGCTCAGTTGATCATTTAGCTCTGGAGAGGATGGCATGGCTTCCAGGAGGCC	323
Qy	154	LeuAspProGlyProPheAspGlnGlySerProPheAlaGlnGluLeuAspAspGly	173
Db	322	CTAGACCCAGGGCCCTTTGACCCAGGGCAGGCCCTTTGCCAGGAGCTGTGGACGCGT	263
Qy	174	GlnGlnAlaSerProTyHisProGlySerCysGlyAlaGlyAlaProSerProGlySer	193
Db	262	CAGCAGCCAGCCCTTACCACCCCGGAGCTGTGGCGCAGAGCCCTCCCCCGGAGC	203
Qy	194	SerAspValSerThrAlaGlyThrGlyAlaSerArgSerHisSerSerAspSerGly	213
Db	202	TCTGACGCTCCACCGCAGGAGCTGTGTCTTCGGAGCTCCCACTCCTCAGACTCCGT	143
Qy	214	GlySerAspValAspLeuAspProThrAspGlyLysLeuPheProSerAspGlyPheArg	233
Db	142	GGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCAGCGATGTTTCGT	83
Qy	234	AspCysLysLysGlyAspProLysHisGlyLysArgLysArgGlyArgProArgLysLeu	253
Db	82	GACTGCAAGAGGGGGATCCCAAGCACGGGAGGGAAACGAGGCCGGCCCCGAAAGCTG	23
Qy	254	SerLysGluTyTrpAspCys	260
Db	22	AGCAAGAGTACTGGGACTGT	2

Search completed: February 13, 2004, 01:45:58  
 Job time : 598.395 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 13, 2004, 01:27:22 ; Search time 393.438 Seconds  
(without alignments)  
10448.744 Million cell updates/sec

Title: US-08-978-217-1

Perfect score: 1116

Sequence: 1 ATGGCTGCAACCTGTGAGAT.....TTTCCAGAGTCGGAAGTGA 1116

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Published Applications NA:\*
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  - 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq\*
  - 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq\*
  - 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq\*
  - 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq\*
  - 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq\*
  - 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq\*
  - 8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq\*
  - 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq\*
  - 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq\*
  - 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq\*
  - 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq\*
  - 13: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq\*
  - 14: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq\*
  - 15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq\*
  - 16: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq\*
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  - 18: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1116	100.0	1907	15	US-10-097-340-74
2	1116	100.0	1915	10	US-09-964-824A-101
3	1116	100.0	1915	10	US-09-964-824A-563
4	1116	100.0	1915	10	US-09-880-107-3420
5	1116	100.0	1915	10	US-09-967-768A-192
6	1116	100.0	1917	9	US-09-922-217-1105
7	1116	100.0	1917	14	US-10-025-380-1105
8	1115.6	100.0	1926	9	US-09-925-301-207
9	1114.4	99.9	1956	12	US-10-264-049-756
10	933	83.6	2269	12	US-10-131-410-64
11	624.4	55.9	626	9	US-09-922-217-853
12	624.4	55.9	626	10	US-09-833-263-853
13	624.4	55.9	626	14	US-10-025-380-853
14	561.4	50.3	563	9	US-09-922-217-944
15	561.4	50.3	563	10	US-09-833-263-944

c	16	561.4	50.3	563	14	US-10-025-380-944	Sequence 944, App
	17	499.4	44.7	502	9	US-09-604-287A-282	Sequence 282, App
	18	499.4	44.7	502	10	US-09-339-338-282	Sequence 282, App
	19	499.4	44.7	502	11	US-09-551-621-282	Sequence 282, App
	20	499.4	44.7	502	13	US-10-124-805-282	Sequence 282, App
	21	499.4	44.7	502	14	US-10-007-805-282	Sequence 282, App
	22	499.4	44.7	502	15	US-10-076-622-282	Sequence 282, App
	23	455	40.8	499	10	US-09-998-598-2290	Sequence 2290, App
	24	372	33.3	437	10	US-09-998-598-2216	Sequence 2216, App
	25	349	31.3	355	10	US-09-867-701-4818	Sequence 4818, App
	26	236	21.1	275	15	US-10-060-036-3261	Sequence 3261, App
	27	220	19.7	451	10	US-09-998-598-32	Sequence 32, Appl
	28	199	17.8	1435	12	US-10-292-798-1501	Sequence 1601, App
	29	199	17.8	1435	13	US-10-017-161-1953	Sequence 1953, App
	30	175.6	15.7	440	10	US-09-960-352-11873	Sequence 11873, A
	31	174	15.6	174	10	US-09-998-598-1740	Sequence 1740, App
	32	173.8	15.6	852	9	US-09-759-143-44	Sequence 44, Appl
	33	173.8	15.6	852	9	US-09-780-669-44	Sequence 44, Appl
	34	173.8	15.6	852	9	US-09-030-606-44	Sequence 44, Appl
	35	173.8	15.6	852	9	US-09-822-827-44	Sequence 44, Appl
	36	173.8	15.6	852	9	US-09-115-453-44	Sequence 44, Appl
	37	173.8	15.6	852	10	US-09-232-880-44	Sequence 44, Appl
	38	173.8	15.6	852	10	US-09-895-793-44	Sequence 44, Appl
	39	173.8	15.6	852	10	US-09-895-814-44	Sequence 44, Appl
	40	173.8	15.6	852	13	US-10-144-678A-44	Sequence 44, Appl
	41	173.8	15.6	852	13	US-10-294-025-44	Sequence 44, Appl
	42	173.8	15.6	852	14	US-10-012-896-44	Sequence 44, Appl
	43	173.8	15.6	852	15	US-10-010-940-44	Sequence 44, Appl
	44	173.4	15.5	1426	9	US-09-925-297-309	Sequence 309, App
	45	173.4	15.5	1426	15	US-10-106-698-935	Sequence 935, App

## ALIGNMENTS

### RESULT 1

US-10-097-340-74

; Sequence 74, Application US/10097340

; Publication No. US20030087250A1

; GENERAL INFORMATION:

; APPLICANT: John MONAHAN

; APPLICANT: Manjula GANNAVAPU

; APPLICANT: Sebastian HOERSCH

; APPLICANT: Shubhangi KAWATKAR

; APPLICANT: Steve G. KOVATS

; APPLICANT: Rachel E. MEYERS

; APPLICANT: Michael MORRISSEY

; APPLICANT: Peter OLANDT

; APPLICANT: Ami SEN

; APPLICANT: Peter VEIBY

; APPLICANT: Gordon B. MILLS

; APPLICANT: Robert C. BAST, Jr.

; APPLICANT: Karen LU

; APPLICANT: Rosemarie SCHMANDT

; APPLICANT: Xumei ZHAO

; APPLICANT: Karen GLATT

; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,

; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer

; FILE REFERENCE: MRI-030

; CURRENT APPLICATION NUMBER: US/10/097,340

; CURRENT FILING DATE: 2002-03-14

; PRIOR APPLICATION NUMBER: 60/276,025

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/325,149

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/276,026

; PRIOR FILING DATE: 2001-03-14

; PRIOR APPLICATION NUMBER: 60/324,967

; PRIOR FILING DATE: 2001/09/26

; PRIOR APPLICATION NUMBER: 60/311,732

; PRIOR FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: 60/325,102

; PRIOR FILING DATE: 2001-09-26

; PRIOR APPLICATION NUMBER: 60/323,580  
 ; PRIOR FILING DATE: 2001-09-19  
 ; NUMBER OF SEQ ID NOS: 363  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 74  
 ; LENGTH: 1907  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-097-340-74

Query Match 100.0%; Score 1116; DB 15; Length 1907;  
 Best Local Similarity 100.0%; Pred. No. 2e-313;  
 Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCACTACTTTCAGTGGGATGACAGC	60
DB	96	ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCACTACTTTCAGTGGGATGACAGC	155
QY	61	TGGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCGGATGACTTG	120
DB	156	TGGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCGGATGACTTG	215
QY	121	GTACTGACCTGTGAGCAACCCAGATGTCATTGGAGGGGTACAGAGAGGCCAGCTGGTTG	180
DB	216	GTACTGACCTGTGAGCAACCCAGATGTCATTGGAGGGGTACAGAGAGGCCAGCTGGTTG	275
QY	181	GGGGAACAGCCCACTTCTGGTTCGAAGACGCGAGTTCCTGGACTGGATCAGCTACCAAGT	240
DB	276	GGGGAACAGCCCACTTCTGGTTCGAAGACGCGAGTTCCTGGACTGGATCAGCTACCAAGT	335
QY	241	GAGAGACAGTACGAGCAGCGCACTTCACTTCTCAGATGTGATGATGGATGGGCC	300
DB	336	GAGAGACAGTACGAGCAGCGCACTTCACTTCTCAGATGTGATGATGGATGGGCC	395
QY	301	ACCTCTGCAATTTGGCCCTTGGAGAGTGGCTCTGGTCTTGGCCCTTGGGGGACCAA	360
DB	396	ACCTCTGCAATTTGGCCCTTGGAGAGTGGCTCTGGTCTTGGCCCTTGGGGGACCAA	455
QY	361	CTCCATGGCCAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGTCACTTGGATCAT	420
DB	456	CTCCATGGCCAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGTCACTTGGATCAT	515
QY	421	GAGCTGTGGAGAGATGGATGGCTTCCAGAGGCTTCCAGAGGCTTCCAGAGGCTTCCAG	480
DB	516	GAGCTGTGGAGAGATGGATGGCTTCCAGAGGCTTCCAGAGGCTTCCAGAGGCTTCCAG	575
QY	481	CAGGCGAGCCCTTTGGCCAGAGCTGTGACGACGGTTCAGCAAGCCAGCCCTTACAC	540
DB	576	CAGGCGAGCCCTTTGGCCAGAGCTGTGACGACGGTTCAGCAAGCCAGCCCTTACAC	635
QY	541	CCCGCAGCTGTGGCGAGGAGCCCTCCCTCCCTGCGAGCTCTGAGCTCTCCAGCGAGG	600
DB	636	CCCGCAGCTGTGGCGAGGAGCCCTCCCTCCCTGCGAGCTCTGAGCTCTCCAGCGAGG	695
QY	601	ACTGTGTCTTCGGAGCTCCACCTCTCAGACTCCGGTGGAGTACGCTGGAGCTGGAT	660
DB	696	ACTGTGTCTTCGGAGCTCCACCTCTCAGACTCCGGTGGAGTACGCTGGAGCTGGAT	755
QY	661	CCCACTGTAGCAAGCTTTCGCCAGCGATGGTTTCTGATCTGCAAGAGGGGATCCC	720
DB	756	CCCACTGTAGCAAGCTTTCGCCAGCGATGGTTTCTGATCTGCAAGAGGGGATCCC	815
QY	721	AAGCAAGGAGGAGGAGGAGGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT	780
DB	816	AAGCAAGGAGGAGGAGGAGGCGCCCGGAAAGCTGAGCAAGAGTACTGGGACTGT	875
QY	781	CTCGAGGAGCAAGAGAGCAGCAGCGCCCGAGAGCAACCTCTGTGGAGTTCATCCGG	840
DB	876	CTCGAGGAGCAAGAGAGCAGCAGCGCCCGAGAGCAACCTCTGTGGAGTTCATCCGG	935
QY	841	GACATCTTCATCCAGCCGAGCTCAACGAGGCGCTTCATGAAGTGGAGATCGGCATGAA	900
DB	936	GACATCTTCATCCAGCCGAGCTCAACGAGGCGCTTCATGAAGTGGAGATCGGCATGAA	995

RESULT 2

US-09-964-824A-101  
 ; Sequence 101, Application US/09964824A  
 ; Patent No. US20020102531A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horrigan, Stephen  
 ; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal  
 ; FILE OF INVENTION: Sets  
 ; FILE REFERENCE: 689290-73  
 ; CURRENT APPLICATION NUMBER: US/09/964,824A  
 ; CURRENT FILING DATE: 2001-09-27  
 ; PRIOR APPLICATION NUMBER: US/60/236,033  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,032  
 ; PRIOR FILING DATE: 2000-09-28  
 ; PRIOR APPLICATION NUMBER: US/60/236,028  
 ; PRIOR FILING DATE: 2000-09-28  
 ; NUMBER OF SEQ ID NOS: 583  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 101  
 ; LENGTH: 1915  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-964-824A-101

Query Match 100.0%; Score 1116; DB 10; Length 1915;  
 Best Local Similarity 100.0%; Pred. No. 2e-313;  
 Matches 1116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCACTACTTTCAGTGGGATGACAGC	60
DB	120	ATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCACTACTTTCAGTGGGATGACAGC	179
QY	61	TGGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCGGATGACTTG	120
DB	180	TGGGAGGACTCCACCTGGCTCTGTTCCTCCCTGCTGCCACCTTTGGGGCGGATGACTTG	239
QY	121	GTACTGACCTGTGAGCAACCCAGATGTCATTGGAGGGGTACAGAGAGGCCAGCTGGTTG	180
DB	240	GTACTGACCTGTGAGCAACCCAGATGTCATTGGAGGGGTACAGAGAGGCCAGCTGGTTG	299
QY	181	GGGGAACAGCCCACTTCTGGTTCGAAGACGCGAGTTCCTGGACTGGATCAGCTACCAAGT	240
DB	300	GGGGAACAGCCCACTTCTGGTTCGAAGACGCGAGTTCCTGGACTGGATCAGCTACCAAGT	359
QY	241	GAGAGACAGTACGAGCAGCGCACTTCACTTCTCAGATGTGACATGGATGGCGGCC	300
DB	360	GAGAGACAGTACGAGCAGCGCACTTCACTTCTCAGATGTGACATGGATGGCGGCC	419
QY	301	ACCTCTGCAATTTGGCCCTTGGAGAGTGGCTCTGGTCTTGGCCCTTCTGGGGAGCAAA	360
DB	420	ACCTCTGCAATTTGGCCCTTGGAGAGTGGCTCTGGTCTTGGCCCTTCTGGGGAGCAAA	479
QY	361	CTCCATGGCCAGCTCGAGACCTCACTTCCAGCTCTTCTGATGAGTCACTTGGATCAT	420

Db	480	CTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAATT	539
Qy	421	GAGCTGCTCGAGAAGAGTGGCATGGCTTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC	480
Db	540	GAGCTGCTCGAGAAGAGTGGCATGGCTTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGAC	599
Qy	481	CAGGCGAGCCCTTTTGCCAGAGAGTGTGAGCAGCGGTCAAGCAGCAGCCCTTACCAC	540
Db	600	CAGGGCAGCCCTTTTGCCAGAGAGTGTGAGCAGCGGTCAAGCAGCAGCCCTTACCAC	659
Qy	541	CCCGGCAGCTGTGGCGCAGAGAGCCCTCCCTCGGCAGCTCTGAGCTCTCCACCGCAGGG	600
Db	660	CCCGGCAGCTGTGGCGCAGAGAGCCCTCCCTCGGCAGCTCTGAGCTCTCCACCGCAGGG	719
Qy	601	ACTGTTGCTTCTCGAGAGTCCCACTCCTCAGACTCCGTTGGAAGTGAAGTGAACCTGAT	660
Db	720	ACTGTTGCTTCTCGAGAGTCCCACTCCTCAGACTCCGTTGGAAGTGAAGTGAACCTGAT	779
Qy	661	CCCACTGATGGCAAGCTCTTCCCACCGATGGTTTTCTGTGACTGCAAGAAGGGGGATCCC	720
Db	780	CCCACTGATGGCAAGCTCTTCCCACCGATGGTTTTCTGTGACTGCAAGAAGGGGGATCCC	839
Qy	721	AAGCA CGGAGAGCGGAAAAGAGGCCCGGCCCGGAAGCTGAGCAAGAGTACTGGGACTGT	780
Db	840	AAGCACCGGAGAGCGGAAAAGAGGCCCGGCCCGGAAGCTGAGCAAGAGTACTGGGACTGT	899
Qy	781	CTCAGGGCAAGAGAGCAGCAGCGCCCGAGAGGCACCACTGTGGAGTTCTATCCGG	840
Db	900	CTCAGGGCAAGAGAGCAGCAGCGCCCGAGAGGCACCACTGTGGAGTTCTATCCGG	959
Qy	841	GACATCTCATCCACCGGAGCTCAACGAGGGCCCTCATGAGTGGAGAAATCGGATGAA	900
Db	960	GACATCTCATCCACCGGAGCTCAACGAGGGCCCTCATGAGTGGAGAAATCGGATGAA	1019
Qy	901	GGCGTCTTCAAGTTCTCTGGCTCCGAGGCTGTGGGCCCAACTATGGGGCCAAAGAAAAAG	960
Db	1020	GGCGTCTTCAAGTTCTCTGGCTCCGAGGCTGTGGGCCCAACTATGGGGCCCAAGAAAAAG	1079
Qy	961	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGTACTACTACAAACGGGAG	1020
Db	1080	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGTACTACTACAAACGGGAG	1139
Qy	1021	ATCTTGAAACGGGTGGATGGCCGGGACTCGTCTACAAGTTTGGCAAAAACCTCAACGGCG	1080
Db	1140	ATCTTGAAACGGGTGGATGGCCGGGACTCGTCTACAAGTTTGGCAAAAACCTCAACGGCG	1199
Qy	1081	TGGAAGGAGGAAGAGGTTCTTCCAGAGTCGGAACCTGA	1116
Db	1200	TGGAAGGAGGAAGAGGTTCTTCCAGAGTCGGAACCTGA	1235

DECLASSIFIED

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RESULTS 3
US-09-964-824A-563
; Sequence 563, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 563
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 563
; LENGTH: 1915
; TYPE: DNA

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Db	1080	AAACAGCAATGACCTTACGAGAGACTGAGCGCGCCATGAGTCTACTACAAACGGAG	1139
Qy	1021	ATCTCGAAACGGGTGGATGGCGCGCACTCGTCTACAAGTTGGCAAAAATCTCAAGCGC	1080
Db	1140	ATCTCGAAACGGGTGGATGGCGCGCACTCGTCTACAAGTTGGCAAAAATCTCAAGCGC	1199
Qy	1081	TGGAAGAGGAGAGAGGTTTCTCCAGAGTCGGAAC	1116
Db	1200	TGGAAGGAGGAGAGAGGTTCTCCAGAGTCGGAAC	1235

## RESULT 4

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US-09-880-107-3420
; Sequence 3420, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Parci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3420
; LENGTH: 1515
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U7
US-09-880-107-3420

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Query Match      100.0%; Score 1116; DB 10; Length 1915;
Best Local Similarity 100.0%; Pred. No. 2e-313;
Matches 1116: Conservative 0; Mismatches 0; Indels 0;
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1	ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTCTCAGTGGGATGTACAGC	60
120	ATGGCTGCAACCTGTGAGATTAGCAACATTTTTAGCAACTACTCTCAGTGGGATGTACAGC	179
61	TCGGAGGATCCACACCTGCGCTCTCTGCCCTGCTGCCACTTTTGGGGCCGATGACATTG	120
180	TCGGAGGATCCACACCTGCGCTCTCTGCCCTGCTGCCACTTTTGGGGCCGATGACATTG	239
121	GTACTACCCCTGAGCAACCCCCAGATGTCATTGAGGGTACAGAAAGGCCAGCTGGTTG	180
240	GTACTACCCCTGAGCAACCCCCAGATGTCATTGAGGGTACAGAAAGGCCAGCTGGTTG	299
181	GGGGACAGCCCCAGTTCTGTGCGAAGACGCAGGTTCTGGACTGGATCGACTACCAAGTG	240
300	GGGGACAGCCCCAGTTCTGTGCGAAGACGCAGGTTCTGGACTGGATCGACTACCAAGTG	359
241	GAGAAAGAAAGTAGCAGCAAGCGCCATTGACTTCTCAGATGTGACATGGATGGCGCC	300
360	GAGAGAAAGTAGCAGCAAGCGCCATTGACTTCTCAGATGTGACATGGATGGCGCC	419
301	ACCCCTGCAATTGTGCCCTTGAGAGCTGGTCTGGTCTTTGGGCTCTGGGGGACCAA	360
420	ACCCCTGCAATTGTGCCCTTGAGAGCTGGTCTGGTCTTTGGGCTCTGGGGGACCAA	479
361	CTCCATGCCCCAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAT	420
480	CTCCATGCCCCAGCTGGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCAT	539
421	GAGCTGCTGGAGAAGGATGGCATGGCCCTTCCAGGAGGCCCTTAGACCCAGGGCCCTTTGAC	480
540	GAGCTGCTGGAGAAGGATGGCATGGCCCTTCCAGGAGGCCCTTAGACCCAGGGCCCTTTGAC	599

Qy	481	CAGGGCAGCCCTTTTGGCCAGAGCTGCTGGACGACGGTCAGCAAGCCGACGCCCTTACCAC	540
Db	600	CAGGGCAGCCCTTTTGGCCAGAGCTGCTGGACGACGGTCAGCAAGCCGACGCCCTTACCAC	659
Qy	541	CCCGGCAGCTGTGGCCAGAGAGCCCTCCCTCTGGCAGCTCTCACTGCTTCCAACGCGAGGG	600
Db	660	CCCGGCAGCTGTGGCCAGAGAGCCCTCCCTCTGGCAGCTCTCACTGCTTCCAACGCGAGGG	719
Qy	601	ACTGGTGTCTTCTCGGAGCTCCCACTCTCAGACTCCGGTGGAAAGTACAGCTGGACCTTGAT	660
Db	720	ACTGGTGTCTTCTCGGAGCTCCCACTCTCAGACTCCGGTGGAAAGTACAGCTGGACCTTGAT	779
Qy	661	CCCACTGATGGCAAGCTCTTCCCAGCGATGGTGTTCGTGACTGCAAGAAAGGGGATCCC	720
Db	780	CCCACTGATGGCAAGCTCTTCCCAGCGATGGTGTTCGTGACTGCAAGAAAGGGGATCCC	839
Qy	721	AAGCAGCGGAAGCGGAAACGAGGCGCGCCCGGAAAGCTGAGCAAAAGTAGTACTTGGGACTGT	780
Db	840	AAGCAGCGGAAGCGGAAACGAGGCGCGCCCGGAAAGCTGAGCAAAAGTAGTACTTGGGACTGT	899
Qy	781	CTGAGGGCAAGAGAGCAAGCAAGCGCCCGAGAGGCACCCACCTGTGGGAGTTCATCCGG	840
Db	900	CTGAGGGCAAGAGAGCAAGCAAGCGCCCGAGAGGCACCCACCTGTGGGAGTTCATCCGG	959
Qy	841	GACATCTCTATCCACCCGGAGCTCAACGAGGGGCTCATGAAGTGGGAGAAATCGGCATGAA	900
Db	960	GACATCTCTATCCACCCGGAGCTCAACGAGGGGCTCATGAAGTGGGAGAAATCGGCATGAA	1019
Qy	901	GGGGTCTTCAAGTTCCTGGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAG	960
Db	1020	GGGGTCTTCAAGTTCCTGGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAAG	1079
Qy	961	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTCAAAACGGGAG	1020
Db	1080	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTCAAAACGGGAG	1139
Qy	1021	ATCCTGTGNAACGGGTGGATGSCCGCGCACTCGTCTTACAAGTTTGGCAAAAACCTCAAGCGGC	1080
Db	1140	ATCCTGTGNAACGGGTGGATGSCCGCGCACTCGTCTTACAAGTTTGGCAAAAACCTCAAGCGGC	1199
Qy	1081	TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACATGA	1116
Db	1200	TGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAACATGA	1235

## RESULT 5

```

US-09-967-768A-192
; Sequence 192, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-192

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Query Match 100.0%; Score 1116; DB 10; Length 1915;  
Best Local Similarity 100.0%; Pred. NO. 2e-313;









QY	61	TCGAGGAGATCTCAACCCCTGGCCTCTGTGTTCCTCCCTGTCTGCCACTTTGGGGCCGATGACTTG	120
Db	221	TCGAGGAGATCTCAACCCCTGGCCTCTGTGTTCCTCCCTGTCTGCCACTTTGGGGCCGATGACTTG	280
QY	121	GTACTGACCCTCAGACAACCCCCAGATGTCAATTGGAGGGGTACAGAGAAAGCCAGCTGGTGTG	180
Db	281	GTACTGACCCTCAGACAACCCCCAGATGTCAATTGGAGGGGTACAGAGAAAGCCAGCTGGTGTG	340
QY	181	GGGGAACAGCCCCAGTTCTTGTCGAAGACGCAAGTCTTGGACTGGAATCAGCTACCAAGTG	240
Db	341	GGGGAACAGCCCCAGTTCTTGTCGAAGACGCAAGTCTTGGACTGGAATCAGCTACCAAGTG	400
QY	241	GAGAAGAAACAAGTACGACGCAAGCGCAATTGACTTCTCACGATGTGACATGGATGGCGCC	300
Db	401	GAGAAGAAACAAGTACGACGCAAGCGCAATTGACTTCTCACGATGTGACATGGATGGCGCC	460
QY	301	ACCTCTGCAATTGTGTCCCTTCAGGAGCTGCGTCTGGTCTTTGGGCGCTTGGGGGACCAA	360
Db	461	ACCTCTGCAATTGTGTCCCTTCAGGAGCTGCGTCTGGTCTTTGGGCGCTTGGGGGACCAA	520
QY	361	CTCATGCCCGAGCTGGAGACCTCACTTCAGACTCTTCTGATGAGCTCAGTTGGATCATTT	420
Db	521	CTCATGCCCGAGCTGGAGACCTCACTTCAGACTCTTCTGATGAGCTCAGTTGGATCATTT	580
QY	421	GAGCTGCTGGAGAGATGGCATGGCCCTTCGAGGAGCCCTAGACCCAGGGCCCTTTGAC	480
Db	581	GAGCTGCTGGAGAGATGGCATGGCCCTTCGAGGAGCCCTAGACCCAGGGCCCTTTGAC	640
QY	481	CAGGGCAGGCCCCCTTTGCCCAGGAGCTGTGGACGACGGTTCAGCAAGCCAGCCCTTACCAC	540
Db	641	CAGGGCAGGCCCCCTTTGCCCAGGAGCTGTGGACGACGGTTCAGCAAGCCAGCCCTTACCAC	700
QY	541	CCCGGAGAGTGTGGCCGAGGAGCCCTCCCTCGGAGCTCTGACGTCTCCACCCGAGGG	600
Db	701	CCCGGAGAGTGTGGCCGAGGAGCCCTCCCTCGGAGCTCTGACGTCTCCACCCGAGGG	760
QY	601	ACTGGTGTCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAGTGACGTGGACCTGGAT	660
Db	761	ACTGGTGTCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAGTGACGTGGACCTGGAT	820
QY	661	CCCACTGATGGCAAGCTCTCCCGAGGATGGTTTCTGTGACTGCAAGAGGGGATCCC	720
Db	821	CCCACTGATGGCAAGCTCTCCCGAGGATGGTTTCTGTGACTGCAAGAGGGGATCCC	880
QY	721	AAGCAGCGGAAGCGGAAACGAGGCCGCGCCCGCAAAAGCTGAGCAAGAGTACTGGGACTGT	780
Db	881	AAGCAGCGGAAGCGGAAACGAGGCCGCGCCCGCAAAAGCTGAGCAAGAGTACTGGGACTGT	940
QY	781	CTCGAGGGCAAGAGACGACGCGCCGAGAGGACCCACTGTGGGAGTTCTATCCGG	840
Db	941	CTCGAGGGCAAGAGACGACGCGCCGAGAGGACCCACTGTGGGAGTTCTATCCGG	1000
QY	841	GACATCTCATCCACCCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA	900
Db	1001	GACATCTCATCCACCCGGAGCTCAACGAGGGCTCATGAAGTGGGAGATCGGCATGAA	1060
QY	901	GGCGTCTTCAGTTCCCTGGCTCCGAGGCTGTGGCCCACTATATGGGGCCAAAGAAAAG	960
Db	1061	GGCGTCTTCAGTTCTTCGGTTCGAGGCTGTGGCCCACTATATGGGGCCAAAGAAAAG	1120
QY	961	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG	1020
Db	1121	AACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAG	1180
QY	1021	ATCCTGTGAAACGGGTGGATGGCCGCGACTCGTCTTACAAGTTTGGCAAAAACCTCAACGGCC	1080
Db	1181	ATCCTGTGAAACGGGTGGATGGCCGCGACTCGTCTTACAAGTTTGGCAAAAACCTCAACGGCC	1240
QY	1081	TGGAAGGAGGAAGAGTTTCTCCAGATCGGAATGGA	1116
Db	1241	TGGAAGGAGGAAGAGTTTCTCCAGATCGGAATGGA	1276

RESULT 10  
 US-10-131-410-64  
 ; Sequence 64, Application US/10131410  
 ; Publication No. US20030235915A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SPECHT, THOMAS  
 ; APPLICANT: HINZMANN, BERND  
 ; APPLICANT: SCHMITT, ARMIN  
 ; APPLICANT: PILARSKY, CHRISTIAN  
 ; APPLICANT: DAHL, EDGAR  
 ; APPLICANT: ROSENTHAL, ANDRE  
 ; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST  
 ; TITLE OF INVENTION: TUMORS  
 ; FILE REFERENCE: SCH-1763  
 ; CURRENT APPLICATION NUMBER: US/10/131,410  
 ; CURRENT FILING DATE: 2002-04-25  
 ; PRIOR APPLICATION NUMBER: 09/646,673  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: PCT/DE99/00908  
 ; PRIOR FILING DATE: 1999-03-19  
 ; NUMBER OF SEQ ID NOS: 202  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 64  
 ; LENGTH: 2269  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-131-410-64

Query Match 83.6%; Score 933; DB 12; Length 2269;  
 Best Local Similarity 99.3%; Pred. No. 2,7e-260;  
 Matches 958; Conservative 0; Mismatches 5; Indels 2; Gaps 2;

Qy	152	TGAGGGGTACAGAGAAGCCAGCTGGTTGGGGAAACAGCCCCAGTTCTTGTCGAAGACGC	211
Dd	4	TGGCCCTTCAGAGAAGCCAGCTGGTTGGGGAAACAGCCCCAGTTCTTGTCGAAGACGC	62
Qy	212	AGTTCTTGGACTGGATCAGCTACCAAGTGAGAGAAGAAACAATGACGACGCAAGCCGCAATG	271
Dd	63	AGTTCTTGGACTGGATCAGCTACCAAGTGAGAGAAGAAACAATGACGACGCAAGCCGCAATG	122
Qy	272	ACTTCTCACCATGTGACATGGATGGCGCCACCTCTCCAAATTTGCCCTTGAGGAGCTGC	331
Dd	123	ACTTCTCACCATGTGACATGGATGGCGCCACCTCTCCAAATTTGCCCTTGAGGAGCTGC	182
Qy	332	GTCTGGTCTTTTGGCCCTCTGGGGACCAACTCCATGCCAGTCCGAGACCTCACTTCCA	391
Dd	183	GTCTGGTCTTTTGGCCCTCTGGGGACCAACTCCATGCCAGTCCGAGACCTCACTTCCA	242
Qy	392	GCTCTTCTGATGAGCTCAGTTGGATCATTTAGCTGCTGGAGAAGATGGCATGGCCCTTC	451
Dd	243	GCTCTTCTGATGAGCTCAGTTGGATCATTTAGCTGCTGGAGAAGATGGCATGGCCCTTC	302
Qy	452	AGGAGGCCCTAGACCCAGGGGCCCTTTGACACAGGGCAGCCCTTTGGCCCGAGGAGCTGCTGG	511
Dd	303	AGGAGGCCCTAGACCCAGGGGCCCTTTGACACAGGGCAGCCCTTTGGCCCGAGGAGCTGCTGG	362
Qy	512	ACGACGGTTCAGACGACGACGCCCCCTACACCCCGGACGCTGGGGCGAGGAGCCCCCTCCC	571
Dd	363	ACGACGGTTCAGACGACGACGCCCCCTACACCCCGGACGCTGGGGCGAGGAGCCCCCTCCC	422
Qy	572	CTGCAGCTCTGAGCTCTCCACCGCAGGACTGGTGTCTTCGGAGCTCCCACTCTCTCAG	631
Dd	423	CTGCAGCTCTGAGCTCTCCACCGCAGGACTGGTGTCTTCGGAGCTCCCACTCTCTCAG	481
Qy	632	ACTCCGGTGGAAAGTGAAGTGACCTGGATCCCACTGATGGCAAGCTCTTCTCCCGCAGGATG	691
Dd	482	ACTCCGGTGGAAAGTGAAGTGACCTGGATCCCACTGATGGCAAGCTCTTCTCCCGCAGGATG	541
Qy	692	GTTTTTCGTGACTCAAGAGGGGGATCCCAAGCAGCGGAAACGCGAAACAGGCCCGGCCCC	751
Dd	542	GTTTTTCGTGACTCAAGAGGGGGATCCCAAGCAGCGGAAACGCGAAACAGGCCCGGCCCC	601
Qy	752	GAAAGCTCAGCAAAAGTACTTGGGACTGTCTCGAGGGGCAAGAGACGACGACGCGCCA	811

Db	602	GAAGCTGAGCAAGAGTACTGGGACTGTCTCGAGGGCAAGAGAGCAAGCCGCGCCCA	661
Qy	812	GAGGCAACCCACTGTGGGAGTTTCATCGGAGACATCTCTCATCCACCCGGAGCTCAACGAGG	871
Db	662	GAGGCAACCCACTGTGGGAGTTTCATCGGAGACATCTCTCATCCACCCGGAGCTCAACGAGG	721
Qy	872	GCCTCATGAGTGGGAGAACTCGGATGAAGGCGTCTTCAAGTTCTCGCTCCGAGGCTG	931
Db	722	GCCTCATGAGTGGGAGAACTCGGATGAAGGCGTCTTCAAGTTCTCGCTCCGAGGCTG	781
Qy	932	TGGCCCCAATCATTGGGGCCAAAAGAAAAGAACACACATCACCTACGAGAAGCTGAGCC	991
Db	782	TGGCCCCAATCATTGGGGCCAAAAGAAAAGAACACACATCACCTACGAGAAGCTGAGCC	841
Qy	992	GGGCCATGAGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCGCGGACTCG	1051
Db	842	GGGCCATGAGGTACTACTACAAACGGGAGATCTTGGAAACGGGTGGATGGCGCGGACTCG	901
Qy	1052	TCTACAAAGTTTGGCAAAAACCTCAAGCGGCTGGAAGGAGGAAGGTTTCTCCAGAGTCCGA	1111
Db	902	TCTACAAAGTTTGGCAAAAACCTCAAGCGGCTGGAAGGAGGAAGGTTTCTCCAGAGTCCGA	961
Qy	1112	ACTGA 1116	
Db	962	ACTGA 966	

RESULT 11  
US-09-922-217-853/c  
; Sequence 853, Application US/09922217  
; Patent NO. US20020076414A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole Lynn  
; APPLICANT: Wang, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C13  
; CURRENT APPLICATION NUMBER: US/09/922,217  
; CURRENT FILING DATE: 2001-08-03  
; NUMBER OF SEQ ID NOS: 1124  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 853  
; LENGTH: 626  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-922-217-853

335	Qy	TGGTCTTTGGGGCTCTGGGGACCAATCCATGACCCAGCTGCAGACCTCACTTCCAGCT	394
446	Db	TGGTCTTTGGGGCTCTGGGGACCAATCCATGACCCAGCTGCAGACCTCACTTCCAGCT	387
395	Qy	CTTCTGATGAGCTCAGTTTGATCAATCAGCTGCTGGAGAGGATGGCATGGCTTCCAG	454
386	Db	CTTCTGATGAGCTCAGTTTGATCAATGAGCTGCTGGAGAGGATGGCATGGCCCTTCCAG	327
455	Qy	AGGCCCTAGACCCAGGGGCCCTTTGACAGGGCAGCCCTTTGGCCAGAGAGCTGCTGGACG	514
326	Db	AGGCCCTAGACCCAGGGGCCCTTTGACAGGGCAGCCCTTTGGCCAGAGAGCTGCTGGACG	267
515	Qy	AGGTCAGCAGCAGCAGCCCTTACCACCCGGCAGCTGTGGCGCAGAGGCCCTCCCTCG	574
266	Db	AGGTCAGCAGCAGCAGCCCTTACCACCCGGCAGCTGTGGCGCAGAGGCCCTCCCTCG	207
575	Qy	GCAGCTCTGAGCTCTCCACCGCAGGGACTGGTGTCTTCGAGCTCCCACTCTCTCAGACT	634
206	Db	GCAGCTCTGAGCTCTCCACCGCAGGGACTGGTGTCTTCGAGCTCCCACTCTCTCAGACT	147
635	Qy	CCGGTGGAAAGTGACGTGGACTGGATCCCACTGATGCAAGCTCTTTCCCAAGCGATGGTT	694
146	Db	CCGGTGGAAAGTGACGTGGAACCTGGATCCCACTGATGCAAGCTCTTTCCCAAGCGATGGTT	87
695	Qy	TTTCGTGACTGCAAGAAGGGGGATCCCAAGCAGCGGGAAGCGAAACAGAGGGCGGCCCGAA	754
86	Db	TTTCGTGACTGCAAGAAGGGGGATCCCAAGCAGCGGGAAGCGGAACAGAGGGCGGCCCGAA	27
755	Qy	AGCTGAGCAAGAGTACTGGGACTGT	780
26	Db	AGCTGAGCAAGAGTACTGGGACTGT	1

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RESULT 12
US-09-833-263-853/c
; Sequence 853, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: 09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-853

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	Query Match	55.9%	Score 624.4;	DB 9;	Length 626;	
	Best Local Similarity	99.8%	Pred. No. 6.5e-171;			
	Matches 625;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;	
Qy	155	AGGGTACAGAGAAGCCAGCTGGTTGGGGGACAGCCGCCAGTTCTTGTCGAAAGACGCAGG	214			
Db	626	AGGGTACAGAGAAGCCAGCTGGTTGGGGGACAGCCGCCAGTTCTTGTCGAAAGACGCAGG	567			
Qy	215	TTCTGGACTGGATCAGCTACCAAGTGGAGAGAAGCAAGTACGACGCAAGCGCCATTGACT	274			
Db	566	TTCTGGACTGGATCAGCTACCAAGTGGAGAGAAGCAAGTACGACGCAAGCGCCATTGACT	507			
Qy	275	TCTCACGATGTGACATNGAATGGCGCCAACCTCTGCAATTGTGCCCTTGAGAGAGCTGGCGTC	334			
Db	506	TCTCACGATGTGACATNGAATGGCGCACCCCTCTGCAATTGTGCCCTTGAGAGAGCTGGCGTC	447			

	Query Match	55.9%;	Score 624.4;	DB 10;	Length 626;
	Best Local Similarity	99.8%;	Pred. No. 6.5e-171;		
	Matches 625;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0
Qy	155	AGGGTACAGAGAAGCCAGCTGGTTGGGGGAACAGCCCCAGCTTCTGGTTCGAAGACGCAGG	214		
Db	626	AGGGTACAGAGAAGCCAGCTGGTTGGGGGAACAGCCCCAGCTTCTGGTTCGAAGACGCAGG	567		
Qy	215	TTCTGGACTGGATCAGCTACCAAGTGGGAGAAGAACAAATGACGACGAAGGCCCATTTGACT	274		
Db	566	TTCTGGACTGGATCAGCTACCAAGTGGGAGAAGAACAAATGACGACGAAGGCCCATTTGACT	507		
Qy	275	TCTCAGAGTGCACATGGATGATGCGGCCACCCCTCTGCATTTGTGCCCTTTGAGGAGCTGGTC	334		
Db	506	TCTCAGATTTGACATGGATGATGCGGCCACCCCTCTGCATTTGTGCCCTTTGAGGAGCTGGTC	447		
Qy	335	TGCTCTTTTGGGCTCTGGGGGAACCAACTCCATGCCAGCTGCGAGACCTCACTTCCAGCT	394		

446	Db	TTGTCCTTTTGGGCCTCTGGGGACCAACTCCATGCCAGCTGCAGACCTCACTTCAGCT	387
395	Qy	CTTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTGGAGAGGATGCGATGGCTTCCAGG	454
386	Db	CTTCTGATGAGCTCAGTTGGATCATTTGAGCTGCTGGAGAGGATGGCATGGCCCTCCAGG	327
455	Qy	AGGCCCTAGACCCAGGGCCCTTTGCACAGGGCAGCCCTTTGCCCAGGAGCTGCTGGAGC	514
326	Db	AGGCCCTAGACCCAGGGCCCTTTGCACAGGGCAGCCCTTTGCCCAGGAGCTGCTGGAGC	267
515	Qy	ACGGTCAGCAAGCCAGCCCTTACCACCCCGCAGCTGTGCGCAGAGGCCCTCTCCCTCG	574
266	Db	ACGGTCAGCAAGCCAGCCCTTACCACCCCGCAGCTGTGCGCAGAGGCCCTCTCCCTCG	207
575	Qy	GCAGCTCTGACGTCTCCACCGCAGGGACTGCTGCTCTCGAGCTCCCACTCTCAGACT	634
206	Db	GCAGCTCTGACGTCTCCACCGCAGGGACTGCTGCTCTCGAGCTCCCACTCTCAGACT	147
635	Qy	CCGGTGGGAAGTGACGTGGACCTGGATCCACTGATGGCAAGCTCTTCCCCCAGCGATGGTT	694
146	Db	CCGGTGGGAAGTGACGTGGACCTGGATCCCACTGATGGCAAGCTCTTCCCCCAGCGATGGTT	87
695	Qy	TTTCGTGACTGCAAGAAGGGGGGATCCCAAGCACCGGGAACGGAACACGAGCGCCGCCGAA	754
86	Db	TTTCGTGACTGCAAGAAGGGGGGATCCCAAGCACCGGGAACGGAACACGAGCGCCGCCGAA	27
755	Qy	AGCTGAGCAAGAGTACTGGGACTGT	780
26	Db	AGCTGAGCAAGAGTACTGGGACTGT	1

RESULT 13

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US-10-025-380-853/c
; Sequence 853, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carcer, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 853
; LENGTH: 626
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-853

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QY	215	TTCTGGACTGGATCAGCTTACCAAGTGGAGAAAGAACAGTACGACGCAAGCGCCATTGACT	274
Db	566	TTCTGGACTGGATCAGCTTACCAAGTGGAGAAAGAACAGTACGACGCAAGCGCCATTGACT	507
QY	275	TCTCAGGATGTGACATGGATGGCGCCACCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC	334
Db	506	TCTCAGGATGTGACATGGATGGCGCCACCTCTGCAATTGTGCCCTTGAGGAGCTGCGTC	447
QY	335	TGGTCTTTTGGGCTCTGGGGGACCAATCCATGCCAGCTGCGAGACCTCACTTCCAGCT	394
Db	446	TGGTCTTTTGGGCTCTGGGGGACCAATCCATGCCAGCTGCGAGACCTCACTTCCAGCT	387
QY	395	CTTCTGATGAGCTCAGTTGAGTCAATTGAGCTGTGTGAGAAAGTAGTCATGGCTTCCAGG	454
Db	386	CTTCTGATGAGCTCAGTTGAGTCAATTGAGCTGTGTGAGAAAGTAGTCATGGCTTCCAGG	327
QY	455	AGGCCCTAGACCCAGGGCCCTTTTACCAGAGGACGCCCTTTGCCACGAGGAGCTGCTGGAGC	514
Db	326	AGGCCCTAGACCCAGGGCCCTTTTACCAGGGAGGCCCTTTGCCACGAGGAGCTGCTGGAGC	267
QY	515	ACGGTCAAGAACCCAGGCCCTTACCACCCCGGCGAGCTGTGGCGAGGAGCCCTCCCTCG	574
Db	266	ACGGTCAAGAACCCAGGCCCTTACCACCCCGGCGAGCTGTGGCGAGGAGCCCTCCCTCG	207
QY	575	GCAGCTCTGAAGTCTTCCACCGCAGGAGACTGGTGCTCTGGAGCTCCCACTCTCTCAGACT	634
Db	206	GCAGCTCTGAAGTCTTCCACCGCAGGAGACTGGTGCTCTGGAGCTCCCACTCTCTCAGACT	147
QY	635	CCGGTGGAGTGAAGTGGACCTGGATCCCACTGATGGCAGCTCTTCCCACGAGTGGTT	694
Db	146	CCGGTGGAGTGAAGTGGACCTGGATCCCACTGATGGCAGCTCTTCCCACGAGTGGTT	87
QY	695	TTTCTGTAAGTCAAGAAAGGGGGATCCCAAGCACGGGAAGCGAAACGAGGCCCGGCCCGAA	754
Db	86	TTTCTGTAAGTCAAGAAAGGGGGATCCCAAGCACGGGAAGCGAAACGAGGCCCGGCCCGAA	27
QY	755	AGCTCAGCAAAAGACTACTGGGACTGT	780
Db	26	AGCTCAGCAAAAGACTACTGGGACTGT	1

## RESULT 14

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US-09-922-217-944/c
; Sequence 944, Application US/09922217
; Patent No. US2002007641A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yuguu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

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Best Local Similarity 99.8%; Pred. No. 1.2e-152; Matches 562; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	
QY	219 GGACTGGATCAGCTACCAAGTGGAGAGAACAAAGTACGACGCAAGCGCCATTGACTCTTC 278
Db	563 GGACTGGATCAGCTACCAAGTGGAGAGAACAAAGTACGACGCAAGCGCCATTGACTCTTC 504
QY	279 AGAGTGTGACATGGATGGCGGCCACCTCTCGAAATTGTGCCCTTGAGGAGCTCGCTCGGT 338
Db	503 AGAGTGTGACATGGATGGCGGCCACCTCTCGAAATTGTGCCCTTGAGGAGCTCGCTCGGT 444
QY	339 CTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTGCGAGACCTCACATTCCAGCTCTTC 398
Db	443 CTTTGGGCTCTGGGGGACCAACTCCATGCCAGCTGCGAGACCTCACATTCCAGCTCTTC 384
QY	399 TCATGAGCTCAGTTGGATCATTTGAGCTGTCTGGAGAGGATGGCATGGCTTCCAGGAGGC 458
Db	383 TCATGAGCTCAGTTGGATCATTTGAGCTGTCTGGAGAGGATGGCATGGCTTCCAGGAGGC 324
QY	459 CCTAGACCCAGGGCCCTTTGACACGGGACGCCCCCTTTGCCAGGAGCTGTCTGGAGCAGCG 518
Db	323 CCTAGACCCAGGGCCCTTTGACACGGGACGCCCCCTTTGCCAGGAGCTGTCTGGAGCAGCG 264
QY	519 TCAGCAGCGACGCCCTTACACACCCGGGAGCTGTGGCGAGAGGCCCTCCCTCGGCGAG 578
Db	263 TCAGCAGCGACGCCCTTACACACCCGGGAGCTGTGGCGAGAGGCCCTCCCTCGGCGAG 204
QY	579 CTCTGACGCTCTCCACCGCAGGAGCTGGTGTCTTCTCGGAGCTCCACTCTCTCAGACTCCGG 638
Db	203 CTCTGACGCTCTCCACCGCAGGAGCTGGTGTCTTCTCGGAGCTCCACTCTCTCAGACTCCGG 144
QY	639 TGGAACTGACGTGAGCCTGGATGCCATGTATGCGAAAGCTTTTCCCAGCGATGTTTTTCG 698
Db	143 TGGAACTGACGTGAGCCTGGATGCCATGTATGCGAAAGCTTTTCCCAGCGATGTTTTTCG 84
QY	699 TGACTTGCAGAAAGGGGGATCCCAAGCAGCGGAGCGGAAACGAGGCCGCCCCCGAAGCT 758
Db	83 TGACTTGCAGAAAGGGGGATCCCAAGCAGCGGAGCGGAAACGAGGCCGCCCCCGAAGCT 24
QY	759 GAGCAAGAGTACTGGGACTGTC 781
Db	23 GAGCAAGAGTACTGGGACTGTC 1

Search completed: February 13, 2004, 11:48:18  
Job time : 396.438 secs

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RESULT 15
US-09-833-263-944/c
; Sequence 944, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-944

```

	Query Match	50.3%	Score 561.4;	DB 10;	Length 563;
	Best Local Similarity	99.8%	Prod. No. 1.2e-152;		
	Matches 562;	Conservative	0;	Mismatches 151;	Indels 0; Gaps 0;
QY	21.9	GGACTGGATCAGCTTACCAACTGGAGGAAGAACAAAGTACGACGCAACGCCATTGACTTCTC	278		
Db	563	GGACTGGATCAGCTTACCAACTGGAGGAAGAACAAAGTACGACGCAACGCCATTGACTTCTC	504		